# EXHIBIT 3

```
1
                                     VOLUME: I
                                     PAGES: 1 to 148
 2
                                      EXHIBITS: 9 to 10
 3
                    UNITED STATES DISTRICT COURT
 4
                NORTHERN DISTRICT OF CALIFORNIA
                          OAKLAND DIVISION
 5
 6
          Civil Action No. 4:18-cv-06753-PJH
 7
         In Re:
                                          )
 8
         RIPPLE LABS, INC.
         LITIGATION
 9
10
11
         This Document Relates To:
12
         ALL ACTIONS
13
                   VIDEOTAPED DEPOSITION OF STEVEN P.
14
15
          FEINSTEIN, called as a witness on behalf of
16
          the Defendants, pursuant to the applicable
          provisions of the Federal Rules of Civil
17
          Procedure, before Jeanette N. Maracas,
18
19
          Registered Professional Reporter and Notary
20
          Public in and for the Commonwealth of
21
          Massachusetts, at the Offices of Morgan,
22
          Lewis & Bockius, One Federal Street, Boston,
23
          Massachusetts, on Friday, January 20, 2023,
24
          commencing at 9:41 a.m.
25
                                                      Page 1
```

	A DDE A D ANGEG		
1 2	APPEARANCES:	1	PROCEEDINGS 09:40:39
	SUSMAN GODFREY, LLP	2	VIDEOGRAPHER: We are on the record. 09:40:39
3	By: Nicholas N. Spear, Esq. 1900 Avenue of the Stars	3	This is the videographer speaking, Shawn 09:41:46
4	Los Angeles, CA 90067	4	Budd with Veritext Legal Solutions. Today's 09:41:48
	For the Lead Plaintiff.	5	date is January 20, 2023, and the time is 09:41:51
5	Nspear@susmangodfrey.com	6	9:41 a.m. We are here at the offices of 09:41:55
6	KING & SPALDING, LLP	7	Morgan Lewis, Boston, Massachusetts to take 09:41:59
7	By: Andrew Michaelson, Esq.	8	the video deposition of Dr. Steven Feinstein 09:42:02
	By: Luke N. Roniger, Esq. (Texas)	9	in the matter of Ripple Labs, Inc. 09:42:06
8	By: Jared Lax, Esq. (via Zoom)	^	**
9	1185 Avenue of the Americas New York, NY 10036	10	litigation. 09:42:09
"	For the Defendants.	11	Will counsel please introduce 09:42:10
10	Amichaelson@kslaw.com	12	themselves for the record. 09:42:11
١	Lroniger@kslaw.com	13	MR. SPEAR: Nick Spear, Susman 09:42:13
11 12	Shawn Budd, Videographer.	14	Godfrey for lead plaintiff, Bradley Sostack. 09:42:16
13	Shawii Budu, videographer.	15	MR. MICHAELSON: Andrew Michaelson 09:42:20
	ALSO PRESENT VIA ZOOM:	16	from King & Spalding representing defendants, 09:42:21
14		17	
15	Ana Guardado, Esq., Ripple Labs, Inc.		
16		18	also from King & Spalding in person. My 09:42:29
17		19	colleague, Jared Lax, also from King & 09:42:30
18		20	Spalding, is attending remotely and Ana 09:42:35
19 20		21	Guardado, in-house counsel at Ripple, is 09:42:40
21		22	also joining remotely. 09:42:42
22		23	VIDEOGRAPHER: The court reporter 09:42:43
23		24	today is Jeanette Maracas. Will you please 09:42:44
24 25		25	swear in the witness. 09:42:47
23	Page 2	23	Page 4
	INDEN		
1	INDEX	1	STEVEN P. FEINSTEIN
2	Testimony of: Direct Cross	2	A witness called for examination
3	Steven P. Feinstein	3	by counsel for the Defendants, having been
5	(by Mr. Michaelson) 5	4	first duly sworn, was examined and testified
3	EXHIBITS	5	as follows:
6	EXHIBITS	6	DIRECT EXAMINATION
7	No. Description Page		
8	140. Description Tage	7	BY MR. MICHAELSON: 09:43:06
	Exhibit 9 Deposition notice. 19	8	Q. Good morning, Dr. Feinstein. My name is 09:43:08
9	Zimon / Deposition notice.	9	Andrew Michaelson from King & Spalding 09:43:18
^	Exhibit 10 Exhibit 62, Expert	10	representing defendants. How are you today? 09:43:22
10	Report of Steven P.	11	A. Fine, thank you. 09:43:24
-	Feinstein, 11/18/22. 24	12	Q. Let me go over a few groundrules that should 09:43:25
11	· ···· , · · · · · · · · · · · · · · ·	13	help make today go more smoothly. You may 09:43:27
12		14	be familiar with them, but I'll go through 09:43:28
13			
14		15	them nonetheless. 09:43:29
15		16	First, do you understand you're 09:43:31
16		17	under oath just as you would be in a 09:43:32
17		18	courtroom at trial, is that correct? 09:43:34
18		19	A. Yes. 09:43:37
19		20	Q. And you understand that we have a court 09:43:37
20		21	reporter who is taking down every word that 09:43:39
21			
22		22	you and I say? 09:43:41
23		23	A. Yes. 09:43:42
24		24	Q. Is there any reason why you can't give 09:43:42
25		25	complete truthful testimony today? 09:43:47
	Page 3		Page 5
	·		<del></del>

1 A. No. 09:43:48 1 documents, my report and these others. 2 Q. Okay. I'll ask that you let me finish 09:43:49 2 Q. Okay. So aside from what's listed in your 3 my question before you answer so that we 09:43:52 3 report and what you've mentioned already	
3 my question before you answer so that we 09:43:52 3 report and what you've mentioned already	09:46:20
	r 09:46:22
4 don't talk over each over so that the count 00.42.55	09:46:26
4 don't talk over each over so that the court 09:43:55 4 specifically this morning, you can't think	09:46:28
5 reporter can be sure to take down every 09:43:58 5 of any other document you reviewed in	09:46:31
6 word. Is that okay? 09:44:00 6 preparation for today? 09:4	16:32
7 A. Yes. 09:44:02 7 A. Correct. 09:46:33	3
8 Q. If you need to take a break, let me know. 09:44:02 8 Q. Okay. And the meetings with counsel, th	
9 I'll likely ask that you completely answer 09:44:08 9 was one yesterday in person and there was	a 09:46:40
any question that's pending before we break, 09:44:10 10 remote meeting about a week prior?	09:46:42
11 but aside from that, we can generally 09:44:13 11 A. That's correct. 09:46:	44
12 accommodate. 09:44:15 12 Q. Did you talk with anyone other than your	09:46:45
13 A. Okay. 09:44:16 13 counsel in preparation for today?	09:46:48
14 Q. So I'm going to ask you a few questions 09:44:17 14 A. Yes. 09:46:51	
	09:46:51
asking you for the substance of any 09:44:24 16 A. Members of my staff at Crowninshield	09:46:53
17 communications you had with counsel in the 09:44:26 17 Research. 09:46:59	)
18 matter. So setting aside the substance 09:44:28 18 Q. What are their names? 09	9:46:59
19 of any of communications you've had with 09:44:31 19 A. Dan Bettencourt, Alex Xuang and Mark I	
20 counsel, can you describe what you did to 09:44:33 20 Those are the folks I spoke with about this	09:47:08
21 prepare for today's deposition. 09:44:35 21 case. 09:47:10	
22 MR. SPEAR: I'll just, consistent 09:44:37 22 Q. Did they help prepare your report?	09:47:11
23 with what he just said, please don't disclose 09:44:39 23 A. Yes. 09:47:15	
24 any communications that we had. Go ahead. 09:44:42 24 Q. Did they draft it? 09:47	7:15
25 A. Well, I read my report. I read or reviewed 09:44:44 25 A. No. 09:47:19	<b>D</b> 0
Page 6	Page 8
1 the documents that are listed in my report. 09:44:48 1 MR. SPEAR: Objection to the exter	nt 09:47:19
2 I also read a few other documents, some 09:44:52 2 I don't think we discussed any drafts.	09:47:22
3 of which were not listed in the documents 09:44:55 3 MR. MICHAELSON: I'm not asking	g for 09:47:24
4 considered exhibit in my report, including 09:44:59 4 the substance of anything. I'm just asking	09:47:25
5 the mediation statements produced in this 09:45:03 5 if his staff drafted the report. 09:	47:27
6 case. Essentially that's it as far as 09:45:08 6 MR. SPEAR: Go ahead.	09:47:29
7 documents. 09:45:13 7 A. Well, they assisted me, but it's my words	, 09:47:30
8 I looked at the interrogatory 09:45:16 8 my writing, my opinions. 09	9:47:33
9 responses and questions that have been 09:45:18 9 Q. Aside from communications with counse	l and 09:47:35
produced and prepared. I met yesterday with 09:45:22 10 your staff, did you speak with anyone else	09:47:38
	47:40
meeting over Zoom, I believe, about a week 09:45:33 12 A. There's one other person. Rawley Heime	er 09:47:42
13 ago. 09:45:37 13 I've spoken to about this case. He's also of	n 09:47:47
14 Q. Okay. I'm going to break that down a little 09:45:40 14 my staff now and he's a finance professor.	
bit. The documents that you reviewed in 09:45:44 15 Q. Where is he a professor? 0	9:47:52
preparation for today, you indicated that 09:45:45 16 A. He just recently moved from Boston Coll	lege 09:47:56
you reviewed documents including the 09:45:50 17 to Arizona State. He works with our firm	09:47:59
19 modistion statements. Were there any other 00:45.52 10 ct. 1	
mediation statements. Were there any other 09:45:53 18 routinely. 09:48:06	lid 09:48:07
mediation statements. Were there any other 09:45:53 18 routinely. 09:48:06  19 documents aside from mediation statements 09:45:55 19 Q. So, again, aside from counsel and staff, d	09:48:09
documents aside from mediation statements 09:45:55 19 Q. So, again, aside from counsel and staff, d	
documents aside from mediation statements 09:45:55 19 Q. So, again, aside from counsel and staff, d that you reviewed in preparation for today? 09:45:57 20 you speak with anyone else in preparation	
documents aside from mediation statements 09:45:55 19 Q. So, again, aside from counsel and staff, d 20 that you reviewed in preparation for today? 09:45:57 20 you speak with anyone else in preparation 21 A. Yes. The motion to dismiss order. I believe 09:46:00 21 for today? 09:48:11	09:48:11
documents aside from mediation statements 09:45:55 19 Q. So, again, aside from counsel and staff, do that you reviewed in preparation for today? 09:45:57 20 you speak with anyone else in preparation for today? 12 A. Yes. The motion to dismiss order. I believe 09:46:00 21 for today? 09:48:11 22 it was a motion to dismiss order. I think 09:46:07 22 A. No. 09:48:11 23 that is listed in my docs reviewed and relied 09:46:10 23 Q. Did you check out any social media in	
documents aside from mediation statements 09:45:55 19 Q. So, again, aside from counsel and staff, do that you reviewed in preparation for today? 09:45:57 20 you speak with anyone else in preparation for today? 12 A. Yes. The motion to dismiss order. I believe 09:46:00 21 for today? 09:48:11 22 it was a motion to dismiss order. I think 09:46:07 22 A. No. 09:48:11 23 that is listed in my docs reviewed and relied 09:46:10 23 Q. Did you check out any social media in	09:48:11 48:21

I			I
1	Q. Did you read any news articles in preparation 09:48:28	1	of the case, but I did look to see who are 09:51:10
2	for today other than those listed in your 09:48:34	2	the experts who filed reports in the SEC 09:51:13
3	report? 09:48:36	3	action. I may have skimmed some reports. 09:51:17
4	A. Well, I keep abreast of the financial news 09:48:37	4	I didn't read any of those reports carefully. 09:51:21
5	in general, not for purposes of preparing 09:48:41	5	Q. Who do you recall being the experts in the 09:51:24
6	for this case, and in the news there have 09:48:44	6	SEC case? 09:51:33
7	been articles about Ripple and XRP over the 09:48:48	7	A. I recall that Daniel Fischel was involved 09:51:35
8	course of the last year which I read, but 09:48:53	8	and Alan Farrell. I don't recall the other 09:51:39
9	just in the general course of my business 09:48:56	9	names, but I do recall there were about 09:51:48
10	both as a consultant and as a professor, 09:48:59	10	five reports that were linked to articles 09:51:51
11	not specifically to prepare for this case. 09:49:02	11	that I had seen in the press. 09:51:55
12	Q. In what publications did you see these 09:49:04	12	Q. Did you read the Fischel report? 09:51:58
13	articles about Ripple and XRP? 09:49:08	13	A. I believe I opened it, but I don't recall 09:52:01
14	A. Law 360 primarily, but as you know, Ripple 09:49:09	14	anything of the content. I may have just 09:52:05
15	has been in the news, in the Wall Street 09:49:14	15	looked to see what side he was on. I opened 09:52:08
16	Journal. That's what I know for sure. 09:49:19	16	the report. I don't recall reading it. 09:52:11
17	There may have been other places I've seen 09:49:21	17	Q. Which side was he on? 09:52:14
18	articles covering similar content and events. 09:49:23	18	A. I don't even remember. 09:52:16
19	Q. So you recall seeing articles about Ripple 09:49:26	19	Q. How about Alan Farrell, did you read his 09:52:17
20	and XRP in Law 360 and the Wall Street 09:49:30	20	report? 09:52:19
21	Journal. Any other publications? 09:49:35	21	A. Same thing, I kind of just wanted to see, 09:52:19
22	A. That's what I don't recall specifically 09:49:36	22	and I recall for sure that he was on the 09:52:22
23	other places, but those two I do recall 09:49:37	23	defense side. I don't remember what his 09:52:24
24	specifically. 09:49:40	24	opinions were. 09:52:26
25	Q. What articles do you recall seeing about 09:49:41	25	Q. And did you open I'm trying to get a 09:52:27
	Page 10		Page 12
1	Ripple or XRP in Law 360? 09:49:44	1	sense of the other reports. Did you open 09:52:32
	A. Coverage of the SEC action. 09:49:48	2	them, skim them? 09:52:34
3	Q. And what do you remember about those 09:49:50	3	A. No, I don't recall that I did, just like 09:52:36
4	articles? 09:49:52	4	the listing, the links. 09:52:40
5	A. As I sit here now, it's hard to tell. I 09:49:54	5	Q. Any other documents that you reviewed in 09:52:45
6	mean, not much. That there's this action, 09:49:59	6	preparation for today? 09:52:49
7	what areas are the most contentious being 09:50:04	_	
8	č	7	A. No. 09:52:50
	adjudicated in those actions, what the SEC's 09:50:09	8	A. No. 09:52:50
9	adjudicated in those actions, what the SEC's 09:50:09 position is and what Ripple's position is 09:50:13		A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52
9	position is and what Ripple's position is 09:50:13	8 9	A. No. 09:52:50  Q. Did you and anyone, again, aside from 09:52:52  counsel, aside from your staff who you spoke 09:52:59
9 10	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15	8 9 10	A. No. 09:52:50  Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00
9 10 11	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15 Q. What areas do you recall them describing as 09:50:16	8 9 10 11	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03
9 10 11 12	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15  Q. What areas do you recall them describing as 09:50:16 the most contentious? 09:50:20	8 9 10 11 12	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03 Q. Did you speak with any purchasers of XRP in 09:53:04
9 10 11	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15  Q. What areas do you recall them describing as 09:50:16 the most contentious? 09:50:20  A. Whether or not XRP tokens are a security. 09:50:22	8 9 10 11 12 13	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03 Q. Did you speak with any purchasers of XRP in 09:53:04 preparation for today? 09:53:10
9 10 11 12 13	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15  Q. What areas do you recall them describing as 09:50:16 the most contentious? 09:50:20	8 9 10 11 12	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03 Q. Did you speak with any purchasers of XRP in 09:53:04 preparation for today? 09:53:10 A. No. 09:53:10
9 10 11 12 13 14 15	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15  Q. What areas do you recall them describing as 09:50:16 the most contentious? 09:50:20  A. Whether or not XRP tokens are a security. 09:50:22  Q. So you understand that's an issue, that's a 09:50:29 contentious issue in the SEC action? 09:50:33	8 9 10 11 12 13 14 15	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03 Q. Did you speak with any purchasers of XRP in 09:53:04 preparation for today? 09:53:10 A. No. 09:53:10 Q. Have you ever purchased XRP? 09:53:11
9 10 11 12 13 14	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15  Q. What areas do you recall them describing as 09:50:16 the most contentious? 09:50:20  A. Whether or not XRP tokens are a security. 09:50:22  Q. So you understand that's an issue, that's a 09:50:29 contentious issue in the SEC action? 09:50:33  A. I do understand that. 09:50:35	8 9 10 11 12 13 14	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03 Q. Did you speak with any purchasers of XRP in 09:53:04 preparation for today? 09:53:10 A. No. 09:53:10 Q. Have you ever purchased XRP? 09:53:11 A. No. 09:53:13
9 10 11 12 13 14 15 16 17	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15  Q. What areas do you recall them describing as 09:50:16 the most contentious? 09:50:20  A. Whether or not XRP tokens are a security. 09:50:22  Q. So you understand that's an issue, that's a 09:50:29 contentious issue in the SEC action? 09:50:33  A. I do understand that. 09:50:35  Q. Is that also at issue in this case? 09:50:36	8 9 10 11 12 13 14 15 16 17	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03 Q. Did you speak with any purchasers of XRP in 09:53:04 preparation for today? 09:53:10 A. No. 09:53:10 Q. Have you ever purchased XRP? 09:53:11 A. No. 09:53:13 Q. Again, circling back to social media, did 09:53:14
9 10 11 12 13 14 15 16 17 18	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15  Q. What areas do you recall them describing as 09:50:16 the most contentious? 09:50:20  A. Whether or not XRP tokens are a security. 09:50:22  Q. So you understand that's an issue, that's a 09:50:29 contentious issue in the SEC action? 09:50:33  A. I do understand that. 09:50:35  Q. Is that also at issue in this case? 09:50:39	8 9 10 11 12 13 14 15 16 17 18	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03 Q. Did you speak with any purchasers of XRP in 09:53:04 preparation for today? 09:53:10 A. No. 09:53:10 Q. Have you ever purchased XRP? 09:53:11 A. No. 09:53:13 Q. Again, circling back to social media, did 09:53:14 you read any posts on social media in 09:53:22
9 10 11 12 13 14 15 16 17 18	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15  Q. What areas do you recall them describing as 09:50:16 the most contentious? 09:50:20  A. Whether or not XRP tokens are a security. 09:50:22  Q. So you understand that's an issue, that's a 09:50:29 contentious issue in the SEC action? 09:50:33  A. I do understand that. 09:50:35  Q. Is that also at issue in this case? 09:50:36  A. I believe it is, although it's not one that 09:50:39  I've expressed an opinion about. 09:50:44	8 9 10 11 12 13 14 15 16 17 18	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03 Q. Did you speak with any purchasers of XRP in 09:53:04 preparation for today? 09:53:10 A. No. 09:53:10 Q. Have you ever purchased XRP? 09:53:11 A. No. 09:53:13 Q. Again, circling back to social media, did 09:53:14 you read any posts on social media in 09:53:22 preparation for today? 09:53:27
9 10 11 12 13 14 15 16 17 18 19 20	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15  Q. What areas do you recall them describing as 09:50:16 the most contentious? 09:50:20  A. Whether or not XRP tokens are a security. 09:50:22  Q. So you understand that's an issue, that's a 09:50:29 contentious issue in the SEC action? 09:50:33  A. I do understand that. 09:50:35  Q. Is that also at issue in this case? 09:50:36  A. I believe it is, although it's not one that 09:50:39  I've expressed an opinion about. 09:50:44  Q. Did you read and review anything else in 09:50:46	8 9 10 11 12 13 14 15 16 17 18 19 20	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03 Q. Did you speak with any purchasers of XRP in 09:53:04 preparation for today? 09:53:10 A. No. 09:53:10 Q. Have you ever purchased XRP? 09:53:11 A. No. 09:53:13 Q. Again, circling back to social media, did 09:53:14 you read any posts on social media in 09:53:22 preparation for today? 09:53:27 A. No. 09:53:28
9 10 11 12 13 14 15 16 17 18 19 20 21	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15  Q. What areas do you recall them describing as 09:50:16 the most contentious? 09:50:20  A. Whether or not XRP tokens are a security. 09:50:22  Q. So you understand that's an issue, that's a 09:50:29 contentious issue in the SEC action? 09:50:33  A. I do understand that. 09:50:35  Q. Is that also at issue in this case? 09:50:36  A. I believe it is, although it's not one that 09:50:39  I've expressed an opinion about. 09:50:44  Q. Did you read and review anything else in 09:50:58	8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03 Q. Did you speak with any purchasers of XRP in 09:53:04 preparation for today? 09:53:10 A. No. 09:53:10 Q. Have you ever purchased XRP? 09:53:11 A. No. 09:53:13 Q. Again, circling back to social media, did 09:53:14 you read any posts on social media in 09:53:22 preparation for today? 09:53:27 A. No. 09:53:28 Q. Did you check out Ripple's website in 09:53:29
9 10 11 12 13 14 15 16 17 18 19 20 21 22	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15  Q. What areas do you recall them describing as 09:50:16 the most contentious? 09:50:20  A. Whether or not XRP tokens are a security. 09:50:22  Q. So you understand that's an issue, that's a 09:50:29 contentious issue in the SEC action? 09:50:33  A. I do understand that. 09:50:35  Q. Is that also at issue in this case? 09:50:36  A. I believe it is, although it's not one that 09:50:39  I've expressed an opinion about. 09:50:44  Q. Did you read and review anything else in 09:50:46  preparation for today's deposition aside 09:50:58  from what you've already discussed? 09:51:00	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03 Q. Did you speak with any purchasers of XRP in 09:53:04 preparation for today? 09:53:10 A. No. 09:53:10 Q. Have you ever purchased XRP? 09:53:11 A. No. 09:53:13 Q. Again, circling back to social media, did 09:53:14 you read any posts on social media in 09:53:22 preparation for today? 09:53:27 A. No. 09:53:28 Q. Did you check out Ripple's website in 09:53:29 preparation for today? 09:53:35
9 10 11 12 13 14 15 16 17 18 19 20 21	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15  Q. What areas do you recall them describing as 09:50:16 the most contentious? 09:50:20  A. Whether or not XRP tokens are a security. 09:50:22  Q. So you understand that's an issue, that's a 09:50:29 contentious issue in the SEC action? 09:50:33  A. I do understand that. 09:50:35  Q. Is that also at issue in this case? 09:50:36  A. I believe it is, although it's not one that 09:50:39  I've expressed an opinion about. 09:50:44  Q. Did you read and review anything else in 09:50:46  preparation for today's deposition aside 09:50:58  from what you've already discussed? 09:51:00  A. Again, it's hard to separate what I read 09:51:01	8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03 Q. Did you speak with any purchasers of XRP in 09:53:04 preparation for today? 09:53:10 A. No. 09:53:10 Q. Have you ever purchased XRP? 09:53:11 A. No. 09:53:13 Q. Again, circling back to social media, did 09:53:14 you read any posts on social media in 09:53:22 preparation for today? 09:53:27 A. No. 09:53:28 Q. Did you check out Ripple's website in 09:53:29 preparation for today? 09:53:35 A. Not in preparation for this deposition, 09:53:36
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15  Q. What areas do you recall them describing as 09:50:16 the most contentious? 09:50:20  A. Whether or not XRP tokens are a security. 09:50:22  Q. So you understand that's an issue, that's a 09:50:29 contentious issue in the SEC action? 09:50:33  A. I do understand that. 09:50:35  Q. Is that also at issue in this case? 09:50:36  A. I believe it is, although it's not one that 09:50:39  I've expressed an opinion about. 09:50:44  Q. Did you read and review anything else in 09:50:46  preparation for today's deposition aside 09:50:58  from what you've already discussed? 09:51:00  A. Again, it's hard to separate what I read 09:51:01  and reviewed for general knowledge purposes 09:51:06	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03 Q. Did you speak with any purchasers of XRP in 09:53:04 preparation for today? 09:53:10 A. No. 09:53:10 Q. Have you ever purchased XRP? 09:53:11 A. No. 09:53:13 Q. Again, circling back to social media, did 09:53:14 you read any posts on social media in 09:53:22 preparation for today? 09:53:27 A. No. 09:53:28 Q. Did you check out Ripple's website in 09:53:29 preparation for today? 09:53:35 A. Not in preparation for this deposition, 09:53:40
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	position is and what Ripple's position is 09:50:13 on these questions. 09:50:15  Q. What areas do you recall them describing as 09:50:16 the most contentious? 09:50:20  A. Whether or not XRP tokens are a security. 09:50:22  Q. So you understand that's an issue, that's a 09:50:29 contentious issue in the SEC action? 09:50:33  A. I do understand that. 09:50:35  Q. Is that also at issue in this case? 09:50:36  A. I believe it is, although it's not one that 09:50:39  I've expressed an opinion about. 09:50:44  Q. Did you read and review anything else in 09:50:46  preparation for today's deposition aside 09:50:58  from what you've already discussed? 09:51:00  A. Again, it's hard to separate what I read 09:51:01  and reviewed for general knowledge purposes 09:51:06	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	A. No. 09:52:50 Q. Did you and anyone, again, aside from 09:52:52 counsel, aside from your staff who you spoke 09:52:59 with in preparation for today? 09:53:00 A. No. 09:53:03 Q. Did you speak with any purchasers of XRP in 09:53:04 preparation for today? 09:53:10 A. No. 09:53:10 Q. Have you ever purchased XRP? 09:53:11 A. No. 09:53:13 Q. Again, circling back to social media, did 09:53:14 you read any posts on social media in 09:53:22 preparation for today? 09:53:27 A. No. 09:53:28 Q. Did you check out Ripple's website in 09:53:29 preparation for today? 09:53:35 A. Not in preparation for this deposition, 09:53:40

1.   1.   1.   1.   1.   1.   1.   1.		
3 A. Correct	1 the deposition. 09:53:46	1 Q. Did you review or did you visit Ripple's 09:55:42
4 Q. About how long did you spend there?     09.53:51	2 Q. You went to Ripple's website? 09:53:48	2 website prior to submitting your report in 09:55:48
5 Å Minutes.         0 9.53:55         6 Q. Fewer than ten?         09.53:56         6 C. Fewer than ten?         09.53:59         6 Q. Fewer than five?         09.53:59         6 Q. Fewer than five?         09.53:59         7 A. Yes.         09.53:59         8 Q. Fewer than five?         09.54:01         9 A. Tim not sure. Maybe between five and ten.         09.54:01         10 what do you recall seeing on Ripples         09.54:01         10 the report.         09.56:05         10 the report.         09.56:05         11 website?         09.56:01         12 recall visiting prior to submitting your         09.56:06         09.56:06         12 recall visiting prior to submitting your         09.56:06         12 recall visiting prior to submitting your         09.56:01         12 recall visiting prior to submitting your         09.56:01         13 report?         14 nat two weeks ago.         09.54:12         14 nat two suck suggets white to 09.54:22         15 Q. Any others?         15 Q. Any others?         09.56:16         14 A. Confirmed that it was at the time I o9.54:12         15 Q. Any others?         15 Q. Any others?         09.56:16         14 A. Confibuse.         09.56:11         15 Q. Any others?         09.56:11         17 Q. Approximately when did you visit the Coinbase.         09.56:20         17 Q. Approximately when did you visit the Coinbase.         09.56:21         17 Q. Approximately when did you visit the Coinbase.         09.56:21         18 A. Chinbase.         09.56:21	3 A. Correct. 09:53:50	3 this case? 09:55:50
6 Q. Fewer than tene?	4 Q. About how long did you spend there? 09:53:51	4 A. No. 09:55:50
7 Å. Yes. 09:53:59  8 Q. Fewer than five? 09:55:50  9 Å. Tmot sure. Maybe between five and ten. 09:54:00  10 Q. What do you recall seeing on Ripple's 09:54:00  11 A. Well, really what I was looking to see is 09:54:10  12 A. Well, really what I was looking to see is 09:54:10  13 if their website was still up and running; 09:54:12  14 and I confirmed that it was at the time I 09:54:16  15 looked at it, which was sometime between 09:54:25  16 the time filing of the report and earlier 09:54:25  17 than two weeks ago. 09:54:25  18 Q. Why did you check out Ripple's website to 09:54:25  19 see if it was up and running? 09:54:29  20 A. Curiosity. If it wasn't, think that would 09:54:39  21 have been relevant to how this case plays 09:54:43  22 out, and I wanted to know that. 09:54:45  23 Q. Did you have some reason to believe that I do recall 09:54:45  24 Ripple had gone out of business? 09:54:45  25 A. I had no reason to believe that I do recall 09:54:45  26 even the complaint, the complaint side or 09:54:45  27 website, Rel's say, prior to submitting 09:55:06  28 website? 09:56:01  29 A. Ves, but not for purposes of preparing 09:56:01  20 A. Curiosity. 10 prior to wish the Coinbase 09:56:10  20 A. Curiosity. If it wasn't, I think that would 09:54:39  21 Q. A Day of times since then? 09:56:35  22 a veen the complaint, the complaint side or 09:54:45  23 even the complaint the complaint side or 09:54:45  24 website? 09:56:04  25 A. I had no reason to believe that I do recall 09:55:04  26 even the complaint the complaint side or 09:55:04  27 a prepared by plaintiff's consel that the 09:54:55  28 website? 09:56:04  29 any — if there's personal communications we 09:55:11  20 any — if there's personal communications we 09:55:11  21 had no reason to believe that in the 09:55:23  22 even the complaint the complaint side or 09:55:23  23 prepared by plaintiff's consel that the 09:55:04  24 website? 09:56:05  25 A. That's up the complaint side or 09:55:13  26 A. Mark was there and if it was still there. 09:55:04  27 which was t	5 A. Minutes. 09:53:53	5 Q. How about websites associated with crypto 09:55:50
8 Q. Fewer than five?	6 Q. Fewer than ten? 09:53:56	6 exchanges? Did you visit any of those 09:55:54
9 Å. I'm not sure. Maybe between five and ten. 09:54:01 10 Q. What do you recall seeing on Ripple's 09:54:10 11 website? 09:54:11 12 if their website was still up and running; 09:54:12 13 if their website was still up and running; 09:54:12 15 looked at fi, which was sometime between 09:54:20 16 the time filling of the report and earlier 09:54:25 17 than two weeks ago. 09:54:25 18 Q. Why did you check out Ripple's website to 09:54:25 19 see if if was up and running? 09:54:29 20 A. Curiosity. If it wasn't, Ithink that would 09:54:31 21 have been relevant to how this case plays 09:54:34 22 out, and I warned to know that. 09:54:39 23 A. I had no reason to believe that. I do recall 09:54:43 24 Ripple had gone out of business? 09:54:43 25 A. I had no reason to believe that. I do recall 09:54:45 26 even the complaint or some documentation 09:54:53 3 prepared by plaintiff's counsel that the 09:54:55 4 website had changed, so! Just warned to see 09:55:00 5 what was there and if it was still there. 09:55:01 6 document you're referring to, but just make of document you're referring to, but just make 09:55:01 7 document you're referring to, but just make 09:55:01 8 are when − you shouldn't be discussing 09:55:13 10 had about this, you shouldn't be discussing 09:55:13 11 those, but if you're referring to, but just make 09:55:01 15 recall which. 09:55:23 16 Q. And prior to tow weeks ago. 09:55:23 17 or this, you visited the website, this was 09:55:31 18 of the report. 09:56:41 19 from the complaint, the complaint is also or 09:55:42 19 any the report of what it don't how what 09:55:51 10 had about this, you shouldn't be discussing 09:55:13 11 those, but if you're referring to like a 09:55:51 12 motion we filed or a brief, then that's fine. 09:55:31 13 THE WITNESS: It was a motion, brief 09:55:31 14 of this, you visited the website, this was 09:55:32 15 of Q. And prior to two weeks ago. 09:55:34 16 Q. And prior to two weeks ago. 09:55:34 17 A. No. 09:56:13 18 the report. 09:56:13 18 the report. 09:56:13 18 the report. 09:56:	7 A. Yes. 09:53:59	7 websites, let's say, prior to submitting 09:55:56
10 Q. What do you recall seeing on Ripple's   09-54-06   10   the report.   09-56-05   09-56-06   11   Q. I see. Which exchanges, websites do you   09-56-06   09-56-16   12   A. Well, really what I was looking to see is   09-54-12   13   report?   09-56-13   14   and I confirmed that it was at the time I   09-54-12   13   report?   09-56-13   15   160-8d at it, which was sometime between   09-54-12   16   the time filling of the report and earlier   09-54-25   16   the time filling of the report and earlier   09-54-25   17   than two weeks ago.   09-54-25   18   Q. Myn others?   09-56-19   17   Q. Approximately when did you visite the Coinbase   09-56-20   18   website?   09-56-21   18   website?   09-56-21   19   A. I think going back, at least a year ago and   09-56-24   19   A. I think going back, at least a year ago and   09-56-24   19   A. I think going back, at least a year ago and   09-56-24   19   A. I think going back, at least a year ago and   09-56-24   19   A. I think going back, at least a year ago and   09-56-24   19   A. I think going back, at least a year ago and   09-56-24   19   A. I think going back, at least a year ago and   09-56-24   19   A. I think going back, at least a year ago and   09-56-24   19   A. I think going back, at least a year ago and   09-56-24   19   A. I think going back, at least a year ago and   09-56-24   19   A. I think going back, at least a year ago and   09-56-24   19   A. I think going back, at least a year ago and   09-56-24   19   A. I think going back, at least a year ago and   09-56-24   19   A. I think going back, at least a year ago and   09-56-24   19   A. I think going back at a year ago and   09-56-24   19   A. I think going back at a year ago and   09-56-24   19   A. I think going back at a year ago and   09-56-24   19   A. I think going back at a year ago and   09-56-24   19   A. I think going back at a year ago and   09-56-38   19   A. I think going back at a year ago and   09-56-38   19   A. I think going back at a year ago and   09-56-38   19   A.	8 Q. Fewer than five? 09:53:59	8 your report in this case? 09:56:01
11   New State   12   New Horizon   13   New Horizon   14   New Horizon   15   New Horizon   15   New Horizon   16   New Horizon   16   New Horizon   17   New Horizon   17   New Horizon   18   New Hor	9 A. I'm not sure. Maybe between five and ten. 09:54:01	9 A. Yes, but not for purposes of preparing 09:56:02
12   A. Well, really what I was looking to see is   09:54:10   12   recall visiting prior to submitting your   09:56:11   13   if their website was still up and running   09:54:12   13   report?   09:56:13	10 Q. What do you recall seeing on Ripple's 09:54:06	10 the report. 09:56:05
13 if their website was still up and running. 09:54:12	11 website? 09:54:10	11 Q. I see. Which exchanges, websites do you 09:56:06
14	12 A. Well, really what I was looking to see is 09:54:10	12 recall visiting prior to submitting your 09:56:11
15 looked at it, which was sometime between	13 if their website was still up and running, 09:54:12	13 report? 09:56:13
16 the time filing of the report and earlier	14 and I confirmed that it was at the time I 09:54:16	14 A. Coinbase. 09:56:16
17   than two weeks ago.   09:54:25   17   Q. Approximately when did you visit the Coinbase   09:56:20   18   Q. Why did you check out Ripple's website   09:54:29   19   See if it was up and running?   09:54:29   19   A. I think going back, at least a year ago ad   09:56:24   19   A. I think going back, at least a year ago ad   09:56:24   19   A. I think going back, at least a year ago ad   09:56:24   19   A. I think going back, at least a year ago ad   09:56:24   19   A. I think going back, at least a year ago ad   09:56:24   19   A. I think going back, at least a year ago ad   09:56:25   19   A. I think going back, at least a year ago ad   09:56:24   19   A. I think going back, at least a year ago ad   09:56:24   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:35   19   A. I think going back, at least a year ago ad   09:56:45   19   A. I think going back, at least a year ago ad   09:56:45   19   A. I think going back at least a year ago ad   09:56:45   19   A. I think going back at least a year ago ad   09:56:45   19   A. I think going back at least a year ago ad   09:56:45   19   A. I think going back at least a year	15 looked at it, which was sometime between 09:54:20	15 Q. Any others? 09:56:16
18 Q. Why did you check out Ripple's website to 90:54:26 19 see if it was up and running? 09:54:29 20 A. Curiosity. If it wasn't, I think that would 90:54:34 21 have been relevant to how this case plays 90:54:34 22 out, and I wanted to know that 09:54:39 23 Q. Did you have some reason to believe that 1 do recall 90:54:48 24 Ripple had gone out of business? 90:54:48 25 A. I had no reason to believe that. I do recall 90:54:48 26 even the complaint, the complaint side or 90:54:48 27 even the complaint for some documentation 90:54:48 28 website had changed, so I just wanted to see 90:55:00 30 prepared by plaintiff's counsel that the 90:55:00 41 website had changed, so I just wanted to see 90:55:00 42 with was there and if it was still there. 90:55:01 43 sure when -you shouldn't be discussing 90:55:11 44 of those, but if you're referring to like a 90:55:13 45 may - if there's personal communications we 90:55:13 46 Q. And just to make sure I'm clear on the timing 90:55:25 47 and just to make sure I'm clear on the timing 90:55:25 48 after you submitted your report in this case, 90:55:25 49 A. That's right. 90:55:44 40 website had changed, so I just maked to see 90:55:50 40 what was there and if it was still there. 90:55:10 41 to be about this, you shouldn't be discussing 90:55:11 41 to those, but if you're referring to like a 90:55:12 42 motion we filed or a brief, then that's fine. 90:55:21 43 of this, you visited the website, this was 90:55:25 44 experience on the timing 90:55:25 45 A. That's right. 90:55:31 46 Q. And djust to make sure I'm clear on the timing 90:55:34 47 of this, you visited the website, this was 90:55:25 48 of An That's right. 90:55:44 49 of this, you visited the website, this was 90:55:25 40 A. That's right. 90:55:31 41 of this, you visited the website, which was 90:55:25 40 A. That's right. 90:55:31 41 of this, you visited the website, this was 90:55:25 41 of An And just to make sure I'm clear on the timing 90:55:34 42 report in this case and two weeks ago? 90:55:35 43 of the finance professor	16 the time filing of the report and earlier 09:54:22	16 A. No. 09:56:19
19 see if it was up and running? 09-54-29	17 than two weeks ago. 09:54:25	17 Q. Approximately when did you visit the Coinbase 09:56:20
20 A. Curiosity. If it wasn't, I think that would 09:54:31	18 Q. Why did you check out Ripple's website to 09:54:26	18 website? 09:56:23
21	19 see if it was up and running? 09:54:29	19 A. I think going back, at least a year ago and 09:56:24
22 out, and I wanted to know that. 09:54:39 23 Q. Did you have some reason to believe that 09:54:40 24 Ripple had gone out of business? 09:54:43 25 A. I had no reason to believe that. I do recall 09:54:45 26 A. I had no reason to believe that. I do recall 09:54:45 27 Page 14  1 I from the complaint, the complaint side or 09:54:48 28 even the complaint or some documentation 09:54:53 3 prepared by plaintiff's counsel that the 09:54:53 4 website had changed, so I just wanted to see 09:55:00 5 what was there and if it was still there. 09:55:04 6 MR. SPEAR: I don't know what 09:55:04 7 document you're referring to, but just make 09:55:07 8 sure when you shouldn't be discussing 09:55:10 10 had about this, you shouldn't be discussing 09:55:13 11 those, but if you're referring to like a 09:55:13 12 motion we filed or a brief, then that's fine. 09:55:21 13 THE WITNESS: It was a motion, brief 09:55:21 14 or maybe a mediation statement. I don't 09:55:23 15 recall which. 09:55:23 16 Q. And just to make sure I'm clear on the timing 09:55:31 17 of this, you visited the website, this was 09:55:31 18 after you submitted your report in this case, 09:55:32 19 but prior to today's deposition? 09:55:34 10 Q. And prior to two weeks ago? 09:55:34 11 Q. And and why did you first visit the Coinbase website was in the 09:56:45 12 A. Nell, keeping abreast of developments in the 09:56:45 13 prepared by plaintiff's counsel that the 09:55:00 14 financial markets is part of what I do 09:56:50 15 as a professor, and this is a burgeoning 09:56:50 16 as a professor, and this is a burgeoning 09:56:50 16 financial press and academic 09:57:02 17 myself what was there and what the experience 09:57:07 18 would be for investors and consumers. 09:57:10 19 Q. So did you visit the first time you 09:57:12 10 had about this, you shouldn't be discussing 09:55:13 11 toonnection with this litigation? 09:57:24 12 A. No, not at all. 09:57:23 13 Q. Okay. You said you visited a number of 09:57:37 14 A. No. 09:57:33 15 prepared by plaintiff's counsel that	20 A. Curiosity. If it wasn't, I think that would 09:54:31	20 a number of times since then. 09:56:35
23 Q. And and why did you first visit the Coinbase 09:56:41 24 Ripple had gone out of business? 09:54:43 25 A. I had no reason to believe that. I do recall 09:54:45 26 Page 14  1 from the complaint, the complaint side or 09:54:45 27 even the complaint or some documentation 09:54:55 28 operated by plaintiff's counsel that the 09:54:55 30 prepared by plaintiff's counsel that the 09:54:55 40 website had changed, so I just wanted to see 09:55:00 41 website had changed, so I just wanted to see 09:55:00 42 website had changed, so I just wanted to see 09:55:00 43 was there and if it was still there. 09:55:04 44 website had changed, so I just wanted to see 09:55:00 45 what was there and if it was still there. 09:55:04 46 MR. SPEAR: I don't know what 09:55:07 47 document you're referring to, but just make 09:55:10 48 sure when — you shouldn't be discussing 09:55:10 49 any — if there's personal communications we 09:55:11 40 had about this, you shouldn't be discussing 09:55:13 41 those, but if you're referring to like a 09:55:13 42 motion we filed or a brief, then that's fine. 09:55:13 43 THE WITNESS: It was a motion, brief 09:55:21 44 or maybe a mediation statement. I don't 09:55:21 45 A. Well, keeping abreast of developments in the 09:56:45 46 very the complaint, the complaint side or 09:56:50 47 as a professor, and this is a burgeoning 09:56:50 48 as a professor, and this is a burgeoning 09:56:50 49 cryptocurrency in both the popular press, 09:56:58 40 cryptocurrency in both the popular press, 09:56:58 41 cryptocurrency in both the popular press, 09:57:02 42 by the financial press and academic 09:57:02 43 cryptocurrency in both the popular press, 09:57:07 44 cryptocurrency in both the popular press, 09:57:07 45 cryptocurrency in both the popular press, 09:57:07 46 cryptocurrency in both the popular press, 09:57:07 47 document you're referring to but just make 09:55:10 48 use when — you shouldn't be discussing 09:55:11 49 any — if there's personal communications we 09:55:13 40 had about this, you's erferring to like a 0	21 have been relevant to how this case plays 09:54:34	21 Q. A number of times since then? 09:56:38
24   Ripple had gone out of business?   09:54:43   25   A. I had no reason to believe that. I do recall   09:54:45   Page 14   26   A. Well, keeping abreast of developments in the   09:56:45   Page 16   27   Page 16   28   Page 16   29   Page 16   Page 1	22 out, and I wanted to know that. 09:54:39	22 A. That's right. 09:56:41
25   A. I had no reason to believe that. I do recall   09:54:45   Page 14     1   from the complaint, the complaint side or   09:54:48   2   even the complaint or some documentation   09:54:53   3   prepared by plaintiff's counsel that the   09:55:50   4   website had changed, so I just wanted to see   09:55:00   4   cryptocurrency in both the popular press,   09:56:56   4   website had changed, so I just wanted to see   09:55:04   5   the financial press and academic   09:56:56   6   publications. I just wanted to see   09:57:02   6   publications. I just wanted to see   09:57:04   7   document you're referring to, but just make   09:55:07   8   sure when you shouldn't be discussing   09:55:10   9   Q. So did you visit the first time you   09:57:15   10   had about this, you shouldn't be discussing   09:55:13   10   visited the Coinbase website, was it in   09:57:23   12   motion we filed or a brief, then that's fine.   09:55:13   12   A. No, not at all.   09:57:23   13   Q. Okay. You said you visited a number of   09:57:24   14   times since then. Did you ever visit it   09:57:27   15   recall which.   09:55:28   16   Specifically?   09:57:33   17   A. No.   09:57:33   18   after you submitted your report in this case,   09:55:34   19   A. Yes, yes.   09:57:37   19   A. Y	23 Q. Did you have some reason to believe that 09:54:40	23 Q. And and why did you first visit the Coinbase 09:56:41
Page 14   Page 15   Page 16   Page 16   Page 16	24 Ripple had gone out of business? 09:54:43	24 website? 09:56:45
1 from the complaint, the complaint side or		
2 even the complaint or some documentation	Page 14	Page 16
3 prepared by plaintiff's counsel that the	1 from the complaint, the complaint side or 09:54:48	1 financial markets is part of what I do 09:56:50
website had changed, so I just wanted to see	2 even the complaint or some documentation 09:54:53	2 as a professor, and this is a burgeoning 09:56:52
5         what was there and if it was still there.         09:55:04         5         the financial press and academic         09:57:02           6         MR. SPEAR: I don't know what         09:55:06         6         publications. I just wanted to see for         09:57:04           7         document you're referring to, but just make         09:55:07         7         myself what was there and what the experience         09:57:07           8         sure when you shouldn't be discussing         09:55:10         8         would be for investors and consumers.         09:57:10           9         any if there's personal communications we observed with the discussing observed in the observed in the discussing observed in the observed in the discussing observed in the observed in th	3 prepared by plaintiff's counsel that the 09:54:55	3 field. I was reading a lot about 09:56:56
6 MR. SPEAR: I don't know what doses for document you're referring to, but just make doses for document you're referring to, but just make doses for sure when you shouldn't be discussing doses it in dose for livestors and consumers. Doses it in doses for doses we shall amount, again, doses and two weeks ago. Doses it in doses for doses we shall amount, again, doses it in doses for doses it in doses it in finance professor to keep abreast of doses of spirated it in this case and two weeks ago. Doses it in doses we shall amount, again, doses it in doses it in doses it in doses we shall amount, again, doses it in doses we shall amount, again, doses it in doses it in doses it in doses we shall amount, again, doses it in doses we shall amount, again, doses it in doses it in doses we shall amount, again, doses it in doses it in doses it in doses we shall amount, again, doses it in doses it in doses it in doses we shall amount, again, doses it in doses it in doses we shall amount, again, doses it in doses it in doses it in doses it in doses we shall amount, again, doses it in doses it in doses it in doses we shall amount, again, doses it in doses it in doses it in doses it in doses we shall amount, again, doses it in doses it in doses it in doses it in doses we shall amount, again, doses it in do	4 website had changed, so I just wanted to see 09:55:00	4 cryptocurrency in both the popular press, 09:56:58
7       document you're referring to, but just make sure when you shouldn't be discussing op:55:10       7       myself what was there and what the experience 09:57:07         8       sure when you shouldn't be discussing op:55:11       09:55:10       8       would be for investors and consumers. 09:57:10         9       any if there's personal communications we op:55:13       09:55:13       10       visited the Coinbase website, was it in 09:57:19         11       those, but if you're referring to like a op:55:13       09:55:13       11       connection with this litigation? 09:57:22         12       motion we filed or a brief, then that's fine. op:55:13       12       A. No, not at all. 09:57:23         13       THE WITNESS: It was a motion, brief op:55:21       14       times since then. Did you ever visit it op:57:27       09:57:24         14       or maybe a mediation statement. I don't or maybe a mediation statement. I don't op:55:23       15       in connection with this litigation op:57:31       09:57:31         16       Q. And just to make sure I'm clear on the timing op:55:25       16       specifically? op:57:33       09:57:33         18       after you submitted your report in this case, op:55:28       18       Q. Do you have an account with Coinbase? op:57:37       09:57:37         20       A. Even prior to two weeks ago? op:55:34       21       A. I did purchase one small amount, again, op:57:40	5 what was there and if it was still there. 09:55:04	5 the financial press and academic 09:57:02
8 sure when you shouldn't be discussing 09:55:10 9 any if there's personal communications we 09:55:11 10 had about this, you shouldn't be discussing 09:55:13 11 those, but if you're referring to like a 09:55:13 12 motion we filed or a brief, then that's fine. 09:55:13 13 THE WITNESS: It was a motion, brief 09:55:13 14 or maybe a mediation statement. I don't 09:55:21 15 recall which. 09:55:23 16 Q. And just to make sure I'm clear on the timing 09:55:23 17 of this, you visited the website, this was 09:55:25 18 after you submitted your report in this case, 09:55:31 19 but prior to today's deposition? 09:55:31 20 A. Even prior to two weeks ago? 09:55:35 21 Q. And prior to two weeks ago? 09:55:35 22 Q. So did you visit the first time you 09:57:15 23 Uside the Coinbase website, was it in 09:57:19 24 to connection with this litigation? 09:57:22 25 (A. That's right. 09:55:37 26 A. That's right. 09:55:37 27 General which. 09:55:37 28 would be for investors and consumers. 09:57:15 29 Q. So did you visit the first time you 09:57:15 30 visited the Coinbase website, was it in 09:57:22 31 connection with this litigation? 09:57:22 31 connection with this litigation? 09:57:23 31 The WITNESS: It was a motion, brief 09:55:11 31 connection with this litigation? 09:57:24 31 Q. Okay. You said you visited a number of 09:57:24 4 times since then. Did you ever visit it 09:57:27 4 times since then. Did you ever visit it 09:57:23 4 No. 09:57:33 4 times since then. Did you ever visit it 09:57:31 4 times since then. Did you ever visit it 09:57:31 4 times since then. Did you ever visit it 09:57:31 4 times since then. Did you ever visit it 09:57:31 4 No. 09:57:33 4 Specifically? 09:57:33 4 Poyou visited the website, was it in 09:57:34 4 No. 09:57:33 4 R. No. 09:57:37 4 A. No. 09:57:37 4 A. No. 09:57:37 4 A. No. 09:57:37 5 Q. Have you traded digital assets there? 09:57:40 5 Q. Have you traded digital assets there? 09:57:40 6 Q. Arthat's right. 09:55:35 6 Very provious the day of the provious provious provious provious provious pr	6 MR. SPEAR: I don't know what 09:55:06	6 publications. I just wanted to see for 09:57:04
9 any if there's personal communications we 09:55:11 10 had about this, you shouldn't be discussing 09:55:13 11 those, but if you're referring to like a 09:55:13 12 motion we filed or a brief, then that's fine. 09:55:13 13 THE WITNESS: It was a motion, brief 09:55:19 14 or maybe a mediation statement. I don't 09:55:21 15 recall which. 09:55:23 16 Q. And just to make sure I'm clear on the timing 09:55:23 17 of this, you visited the website, this was 09:55:25 18 after you submitted your report in this case, 09:55:31 19 but prior to today's deposition? 09:55:31 20 A. Even prior to two weeks ago? 09:55:35 21 Q. And prior to two weeks ago? 09:55:35 22 U. A. That's right. 09:55:37 23 Q. So between the time when you submitted your 09:55:37 24 developments. 09:57:44 25 A. That's right. 09:55:41 26 visited the Coinbase website, was it in 09:57:15 27 visited the Coinbase website, was it in 09:57:15 28 A. No, not at all. 09:57:22 29 Q. Okay. You said you visited a number of 09:57:24 20 Q. Okay. You said you visited a number of 09:57:27 21 A. No. 09:57:31 22 A. No. 09:57:33 23 Like for an investor, and I did that as a 09:57:47 24 report in this case and two weeks ago? 09:55:37 25 A. That's right. 09:55:41 26 developments. 09:57:54	7 document you're referring to, but just make 09:55:07	7 myself what was there and what the experience 09:57:07
10 had about this, you shouldn't be discussing 09:55:13 11 those, but if you're referring to like a 09:55:13 12 motion we filed or a brief, then that's fine. 09:55:13 13 THE WITNESS: It was a motion, brief 09:55:19 14 or maybe a mediation statement. I don't 09:55:21 15 recall which. 09:55:23 16 Q. And just to make sure I'm clear on the timing 09:55:25 17 of this, you visited the website, this was 09:55:25 18 after you submitted your report in this case, 09:55:31 19 but prior to today's deposition? 09:55:31 10 visited the Coinbase website, was it in 09:57:19 11 connection with this litigation? 09:57:22 12 A. No, not at all. 09:57:23 13 Q. Okay. You said you visited a number of 09:57:24 14 times since then. Did you ever visit it 09:57:27 15 in connection with this litigation 09:57:31 16 specifically? 09:57:33 17 A. No. 09:57:33 18 Q. Do you have an account with Coinbase? 09:57:34 19 but prior to today's deposition? 09:55:31 19 A. Yes, yes. 09:57:37 20 A. Even prior to two weeks ago. 09:55:32 20 Q. Have you traded digital assets there? 09:57:40 21 A. I did purchase one small amount, again, 09:57:40 22 A. That's right. 09:55:35 23 like for an investor, and I did that as a 09:57:47 24 report in this case and two weeks ago? 09:55:37 25 developments. 09:57:54	8 sure when you shouldn't be discussing 09:55:10	8 would be for investors and consumers. 09:57:10
11       those, but if you're referring to like a motion we filed or a brief, then that's fine. 09:55:13       11       connection with this litigation? 09:57:22         12       motion we filed or a brief, then that's fine. 09:55:13       12       A. No, not at all. 09:57:23         13       THE WITNESS: It was a motion, brief 09:55:19       13       Q. Okay. You said you visited a number of 09:57:24         14       or maybe a mediation statement. I don't or maybe a mediation statement. I don't op:55:23       14       times since then. Did you ever visit it 09:57:27       09:57:27         15       recall which. 09:55:23       15       in connection with this litigation 09:57:31       09:57:31         16       Q. And just to make sure I'm clear on the timing 09:55:25       16       specifically? 09:57:33         17       of this, you visited the website, this was 09:55:25       17       A. No. 09:57:33         18       after you submitted your report in this case, 09:55:31       19       A. Yes, yes. 09:57:37         19       but prior to today's deposition? 09:55:31       19       A. Yes, yes. 09:57:37         20       A. Even prior to two weeks ago? 09:55:35       20       Q. Have you traded digital assets there? 09:57:40         22       A. That's right. 09:55:35       22       to experiment with what the experience is 09:57:47         23       Q. So between the time when you su	9 any if there's personal communications we 09:55:11	9 Q. So did you visit the first time you 09:57:15
motion we filed or a brief, then that's fine. 09:55:13  THE WITNESS: It was a motion, brief 09:55:19  THE WITNESS: It was a motion, brief 09:55:21  THE WITNESS: It was a motion, brief 09:55:24  THE WITNESS: It was a motion, brief 09:55:21  THE WITNESS: It was a motion, brief 09:55:24  THE WITNESS: It was a motion, brief 09:55:21  THE WITNESS: It was a motion, brief 09:57:24  THE WITNESS: It was a motion, brief 09:55:21  THE WITNESS: It was a motion, brief 09:57:24  THE WITNESS: It was a motion, brief 09:55:21  THE WITNESS: It was a motion, brief 09:57:24  THE WITNESS: It was a motion, brief 09:55:21  THE WITNESS: It was a motion, brief 09:57:24  The WITNESS: It was a motion, brief 09:55:21  THE WITNESS: It was a motion, brief 09:57:24  The WITNESS: It was a motion, brief 09:55:21  The WITNESS: It was a motion, brief 09:57:24  The WITNESS: It was a motion, brief 09:55:21  The WITNESS: It was a motion, brief 09:57:24  The WITNESS: It was a motion, brief 109:57:24  The	10 had about this, you shouldn't be discussing 09:55:13	10 visited the Coinbase website, was it in 09:57:19
THE WITNESS: It was a motion, brief 09:55:19  13 Q. Okay. You said you visited a number of 09:57:24  14 times since then. Did you ever visit it 09:57:27  15 recall which. 09:55:23  16 Q. And just to make sure I'm clear on the timing 09:55:23  17 of this, you visited the website, this was 09:55:25  18 after you submitted your report in this case, 09:55:28  19 but prior to today's deposition? 09:55:31  20 A. Even prior to two weeks ago. 09:55:32  Q. And prior to two weeks ago? 09:55:34  21 Q. And prior to two weeks ago? 09:55:35  Q. So between the time when you submitted your 09:55:37  22 A. That's right. 09:55:37  23 Q. So between the time when you submitted your 09:55:37  24 report in this case and two weeks ago? 09:55:41  13 Q. Okay. You said you visited a number of 09:57:24  14 times since then. Did you ever visit it 09:57:27  15 in connection with this litigation 09:57:31  16 specifically? 09:57:33  17 A. No. 09:57:33  18 Q. Do you have an account with Coinbase? 09:57:34  19 A. Yes, yes. 09:57:37  20 Q. Have you traded digital assets there? 09:57:37  21 A. I did purchase one small amount, again, 09:57:40  22 to experiment with what the experience is 09:57:44  23 Q. So between the time when you submitted your 09:55:35  24 report in this case and two weeks ago? 09:55:37  25 developments. 09:57:54	11 those, but if you're referring to like a 09:55:13	11 connection with this litigation? 09:57:22
or maybe a mediation statement. I don't 09:55:21  14 times since then. Did you ever visit it 09:57:27  15 recall which. 09:55:23  16 Q. And just to make sure I'm clear on the timing 09:55:23  17 of this, you visited the website, this was 09:55:25  18 after you submitted your report in this case, 09:55:28  19 but prior to today's deposition? 09:55:31  20 A. Even prior to two weeks ago. 09:55:32  21 Q. And prior to two weeks ago? 09:55:34  22 A. That's right. 09:55:35  23 Q. So between the time when you submitted your 09:55:37  24 report in this case and two weeks ago? 09:55:41  15 times since then. Did you ever visit it 09:57:27  16 specifically? 09:57:33  17 A. No. 09:57:33  18 Q. Do you have an account with Coinbase? 09:57:34  19 A. Yes, yes. 09:57:37  20 Q. Have you traded digital assets there? 09:57:37  21 A. I did purchase one small amount, again, 09:57:40  22 to experiment with what the experience is 09:57:44  23 Q. So between the time when you submitted your 09:55:35  24 report in this case and two weeks ago? 09:55:41  25 developments. 09:57:54	motion we filed or a brief, then that's fine. 09:55:13	12 A. No, not at all. 09:57:23
15 recall which. 09:55:23 15 in connection with this litigation 09:57:31 16 Q. And just to make sure I'm clear on the timing 09:55:23 16 specifically? 09:57:33 17 of this, you visited the website, this was 09:55:25 17 A. No. 09:57:33 18 after you submitted your report in this case, 09:55:28 18 Q. Do you have an account with Coinbase? 09:57:34 19 but prior to today's deposition? 09:55:31 19 A. Yes, yes. 09:57:37 20 A. Even prior to two weeks ago. 09:55:32 20 Q. Have you traded digital assets there? 09:57:37 21 Q. And prior to two weeks ago? 09:55:34 21 A. I did purchase one small amount, again, 09:57:40 22 A. That's right. 09:55:35 22 to experiment with what the experience is 09:57:47 24 report in this case and two weeks ago? 09:55:37 24 finance professor to keep abreast of 09:57:49 25 A. That's right. 09:55:41 25 developments. 09:57:54	13 THE WITNESS: It was a motion, brief 09:55:19	13 Q. Okay. You said you visited a number of 09:57:24
16 Q. And just to make sure I'm clear on the timing 09:55:23 17 of this, you visited the website, this was 09:55:25 18 after you submitted your report in this case, 09:55:28 19 but prior to today's deposition? 09:55:31 19 A. Yes, yes. 09:57:37 20 A. Even prior to two weeks ago. 09:55:32 21 Q. And prior to two weeks ago? 09:55:34 22 A. That's right. 09:55:35 23 Q. So between the time when you submitted your 09:55:35 24 report in this case and two weeks ago? 09:55:41 25 A. That's right. 09:55:41 26 specifically? 09:57:33 27 A. No. 09:57:33 28 Q. Do you have an account with Coinbase? 09:57:34 29 Q. Have you traded digital assets there? 09:57:37 20 A. I did purchase one small amount, again, 09:57:40 21 A. I did purchase one small amount, again, 09:57:40 22 to experiment with what the experience is 09:57:44 23 Q. So between the time when you submitted your 09:55:35 24 finance professor to keep abreast of 09:57:49 25 developments. 09:57:54	14 or maybe a mediation statement. I don't 09:55:21	14 times since then. Did you ever visit it 09:57:27
of this, you visited the website, this was 09:55:25  17 A. No. 09:57:33  18 after you submitted your report in this case, 09:55:28  19 but prior to today's deposition? 09:55:31  20 A. Even prior to two weeks ago. 09:55:32  21 Q. And prior to two weeks ago? 09:55:34  22 A. That's right. 09:55:35  23 Q. So between the time when you submitted your 09:55:35  24 report in this case and two weeks ago? 09:55:41  17 A. No. 09:57:33  18 Q. Do you have an account with Coinbase? 09:57:34  20 Q. Have you traded digital assets there? 09:57:37  21 A. I did purchase one small amount, again, 09:57:40  22 to experiment with what the experience is 09:57:44  23 Q. So between the time when you submitted your 09:55:35  24 finance professor to keep abreast of 09:57:49  25 developments. 09:57:54	15 recall which. 09:55:23	15 in connection with this litigation 09:57:31
after you submitted your report in this case, 09:55:28  18 Q. Do you have an account with Coinbase? 09:57:34  19 but prior to today's deposition? 09:55:31  20 A. Even prior to two weeks ago. 09:55:32  21 Q. And prior to two weeks ago? 09:55:34  22 A. That's right. 09:55:35  23 Q. So between the time when you submitted your 09:55:35  24 report in this case and two weeks ago? 09:55:41  18 Q. Do you have an account with Coinbase? 09:57:37  20 Q. Have you traded digital assets there? 09:57:37  21 A. I did purchase one small amount, again, 09:57:40  22 to experiment with what the experience is 09:57:44  23 Q. So between the time when you submitted your 09:55:35  24 report in this case and two weeks ago? 09:55:41  25 developments. 09:57:54	16 Q. And just to make sure I'm clear on the timing 09:55:23	16 specifically? 09:57:33
but prior to today's deposition? 09:55:31 19 A. Yes, yes. 09:57:37  20 A. Even prior to two weeks ago. 09:55:32 20 Q. Have you traded digital assets there? 09:57:37  21 Q. And prior to two weeks ago? 09:55:34 21 A. I did purchase one small amount, again, 09:57:40  22 A. That's right. 09:55:35 22 to experiment with what the experience is 09:57:44  23 Q. So between the time when you submitted your 09:55:35 23 like for an investor, and I did that as a 09:57:47  24 report in this case and two weeks ago? 09:55:37 24 finance professor to keep abreast of 09:57:49  25 A. That's right. 09:55:41 25 developments. 09:57:54	17 of this, you visited the website, this was 09:55:25	17 A. No. 09:57:33
20 A. Even prior to two weeks ago. 09:55:32 20 Q. Have you traded digital assets there? 09:57:37 21 Q. And prior to two weeks ago? 09:55:34 21 A. I did purchase one small amount, again, 09:57:40 22 A. That's right. 09:55:35 22 to experiment with what the experience is 09:57:44 23 Q. So between the time when you submitted your 09:55:35 23 like for an investor, and I did that as a 09:57:47 24 finance professor to keep abreast of 09:57:49 25 A. That's right. 09:55:41 25 developments. 09:57:54	18 after you submitted your report in this case, 09:55:28	18 Q. Do you have an account with Coinbase? 09:57:34
21 Q. And prior to two weeks ago? 09:55:34 22 A. That's right. 09:55:35 23 Q. So between the time when you submitted your 09:55:35 24 report in this case and two weeks ago? 09:55:37 25 A. That's right. 09:55:41 26 Q. So between the time when you submitted your 09:55:35 27 A. I did purchase one small amount, again, 09:57:40 28 to experiment with what the experience is 09:57:44 29 gike for an investor, and I did that as a 09:57:47 20 finance professor to keep abreast of 09:57:49 20 developments. 09:57:54	19 but prior to today's deposition? 09:55:31	19 A. Yes, yes. 09:57:37
22 A. That's right. 09:55:35 22 to experiment with what the experience is 09:57:44 23 Q. So between the time when you submitted your 09:55:35 23 like for an investor, and I did that as a 09:57:47 24 report in this case and two weeks ago? 09:55:37 24 finance professor to keep abreast of 09:57:49 25 A. That's right. 09:55:41 25 developments. 09:57:54	20 A. Even prior to two weeks ago. 09:55:32	20 Q. Have you traded digital assets there? 09:57:37
23 Q. So between the time when you submitted your 09:55:35 24 report in this case and two weeks ago? 09:55:37 25 A. That's right. 09:55:41 26 like for an investor, and I did that as a 09:57:47 27 developments. 09:57:49 28 developments. 09:57:54	21 Q. And prior to two weeks ago? 09:55:34	21 A. I did purchase one small amount, again, 09:57:40
report in this case and two weeks ago? 09:55:37 24 finance professor to keep abreast of 09:57:49 25 A. That's right. 09:55:41 25 developments. 09:57:54	I .	I .
25 A. That's right. 09:55:41 25 developments. 09:57:54	22 A. That's right. 09:55:35	22 to experiment with what the experience is 09:57:44
Page 15 Page 17	23 Q. So between the time when you submitted your 09:55:35	23 like for an investor, and I did that as a 09:57:47
	23 Q. So between the time when you submitted your 09:55:35 24 report in this case and two weeks ago? 09:55:37	23 like for an investor, and I did that as a 09:57:47 24 finance professor to keep abreast of 09:57:49

## Case 4:18-cv-06753-PJH Document 243-4 Filed 04/19/23 Page 7 of 80

1 Q. I see. Have you visited the website of 09:57:54	1 not really pursuant to. 10:01:07
2 any other crypto exchange aside from 09:57:58	2 Q. Fair enough. I'd like to direct your 10:01:08
3 Coinbase? 09:58:00	3 attention to Page 3 of the document which is 10:01:10
4 A. I may have. I don't recall specifically, 09:58:02	4 the request for production of documents. 10:01:12
5 but I may have. Not that I recall 09:58:04	5 A. Okay. 10:01:15
6 specifically as I sit here now. 09:58:08	6 Q. And have you seen these requests before? 10:01:16
7 Q. So you may have, but you don't recall today? 09:58:10	7 A. Did you say these requests? 10:01:23
8 A. Correct. 09:58:12	8 Q. Have you seen this set of document requests 10:01:24
9 Q. Okay. 09:58:12	9 before? 10:01:27
10 A. Names that appear for example, what I'm 09:58:17	10 A. This exhibit, yes, I've seen this document. 10:01:27
11 referring to here is if I read an article 09:58:20	11 Q. Did you undertake to collect documents in 10:01:30
12 and they cite Gemini, for example, I may have 09:58:22	12 response to this request? 10:01:33
13 Googled quickly Gemini and seen what comes 09:58:25	13 A. I did. 10:01:35
14 up, but I did that again not in connection 09:58:30	14 Q. Was there any document that you're aware 10:01:35
15 with this case. 09:58:31	15 of that are responsive to these requests 10:01:43
16 Q. And I'm not prying into financial details 09:58:32	16 that you didn't provide to your counsel for 10:01:44
17 here, but I do just want to ask what your 09:58:38	17 production in this case? 10:01:46
18 experience is in trading digital assets, and 09:58:41	18 MR. SPEAR: Objection. I'll just 10:01:48
19 you said that you bought some small amount 09:58:44	19 note that we objected to certain documents or 10:01:49
20 of digital assets on Coinbase. Do you still 09:58:47	20 certain parts of these as not being things 10:01:53
21 own digital assets today? 09:58:51	21 that we were going to produce. Are you 10:01:55
22 A. No. 09:58:53	22 asking I'm not sure what you're asking. 10:01:57
23 Q. Approximately how many trades in digital 09:58:54	23 MR. MICHAELSON: I was asking if 10:02:00
24 assets have you made? 09:59:00	24 he's aware of something that's responsive to 10:02:01
25 A. Two, a purchase and a sale of Ethereum. 09:59:01	25 these that he didn't share with counsel, but 10:02:03
Page 18	Page 20
1 Q. So a purchase and a sale of Ethereum. 09:59:06	1 I understand the nature of your objection. 10:02:09
2 Okay. Have you visited the XRP Ledger in 09:59:10	2 To be honest, we just got the production 10:02:12
3 preparation for today's deposition? 09:59:29	3 less than, I think, 48 hours ago and we've 10:02:15
4 A. No. 09:59:32	4 transferred to our vendor 24 hours ago and 10:02:17
5 Q. Did you visit or interact at all with the 09:59:32	5 some of it we haven't been able to access 10:02:21
6 XRP Ledger in preparation for submitting 09:59:38	6 yet, so we're sitting here today not entirely 10:02:24
7 your report in this case? 09:59:41	7 sure what it fully contains, the production, 10:02:28
8 A. No. 09:59:42	8 because it was made so close in time to 10:02:30
9 MR. MICHAELSON: I'd like to mark 09:59:47	9 the deposition. I guess I'll focus on No. 6. 10:02:32
10 as Exhibit 9 09:59:48	10 Is there an objection to No. 6? 10:02:38
11 (Exhibit 9 marked for 10:00:13	11 MR. SPEAR: I don't believe so, 10:02:40
12 identification.) 10:00:15	12 other than just I don't think we found 10:02:42
13 Q. I handed you a document marked Defense 10:00:21	13 anything. Go ahead. 10:02:43
14 Exhibit 9 which is titled on the first page 10:00:31	14 Q. I'll direct your attention to Request No. 6. 10:02:45
15 Defendants' Notice of Deposition of Steven P. 10:00:33	15 A. Yes. 10:02:53
16 Feinstein with a Request For Documents. 10:00:36	16 Q. No. 6 is a request for all of your public 10:02:53
17 It's a four-page exhibit. Are you familiar 10:00:40	17 statements, publications, writings, notes 10:02:56
18 with this document? 10:00:45	18 slides or presentations relating to XRP, 10:02:58
19 A. Yes. 10:00:47	19 Ripple, cryptocurrency or any other 10:03:02
20 Q. You've seen it before? 10:00:47	20 blockchain technology. Do you see that? 10:03:05
21 A. Yes. 10:00:49	21 A. I do. 10:03:06
22 Q. Do you understand that you're appearing here 10:00:50	22 Q. Do you have any documents responsive to 10:03:06
23 today pursuant to this notice of deposition? 10:00:56	23 this request? 10:03:08
24 A. I'll take your word for it. I was asked to 10:01:00	24 A. Depends on how one interprets "relating." I 10:03:09
25 appear here and that's why I'm here. It's 10:01:04	25 interpreted "relating" to mean that it 10:03:13
Page 19	Page 21

## Case 4:18-cv-06753-PJH Document 243-4 Filed 04/19/23 Page 8 of 80

1			
1	specifically mentions these words, "XRP, 10:03:16	1	A. Again, it depends on I'm not a lawyer 10:06:03
2	Ripple, cryptocurrency or any other 10:03:24	2	so it depends on how one is defining 10:06:06
3	blockchain technology," and I believe I have 10:03:27	3	"responsive to," and that was a decision 10:06:09
4	no such statements, publications, writings 10:03:31	4	and determination made by counsel. Let me 10:06:12
5	that specifically mention these words or 10:03:37	5	elaborate, because I did not turn over to 10:06:17
6	topics, although, of course, these topics 10:03:39	6	counsel reports or testimony that's covered 10:06:19
7	are subsumed within the are covered within 10:03:42	7	by protective orders that preclude my 10:06:23
8	the field of financial economics in general. 10:03:46	8	making them public. 10:06:26
9	I didn't provide every statement that relates 10:03:50	9	Q. Okay. 10:06:27
10	to finance, but I believe that nothing was 10:03:53	10	A. But everything else I endeavored to collect 10:06:32
11	provided here because I have no statements 10:03:58	11	and provided to plaintiff's counsel. 10:06:36
12	and documentation that specifically cites 10:04:01	12	Plaintiff's counsel made a determination as 10:06:43
13	XRP or Ripple and so on. 10:04:04	13	to what to give to you, is my understanding. 10:06:44
14	**	14	Q. Okay. 10:06:46
15	you have made public statements, publications 10:04:10	15	MR. SPEAR: Just for the record, 10:06:51
16	concerning finance, correct? 10:04:13	16	whatever information just so we don't 10:06:53
	A. That's right, and finance applies to the 10:04:14	17	beat around the bush, whatever they gave us 10:06:56
18	analysis and study of finance applies to XRP 10:04:19	18	in response to No. 4 we just produced. We 10:06:56
19	and Ripple, but I didn't believe that's what 10:04:22	19	didn't share it beyond what they gave us. 10:06:59
20	you meant by this Statement 6 request. 10:04:24	20	MR. MICHAELSON: Okay. 10:07:03
21	Q. Okay. The publications, focusing on 10:04:26	21	MR. SPEAR: It's the same for No. 5. 10:07:18
		22	
22 23	publications for a moment. The publications 10:04:30		MR. MICHAELSON: Mark this No. 10. 10:07:26
	that you've authored concerning finance don't 10:04:33	23	(Exhibit 10 marked for 10:07:28
24	mention XRP or Ripple, correct? 10:04:36	24	identification.) 10:07:29
23	A. That's correct. 10:04:39 Page 22	25	Q. Before moving on to Exhibit 10, just a last 10:07:40 Page 24
1	O. They don't mention cryptocurrency? 10:04:40	1	question on Exhibit 9, request, document 10:08:10
1	Q. They don't mention cryptocurrency? 10:04:40 A. Correct. 10:04:42	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	1 1
			1
3		3	that you do not have any notes, class notes 10:08:26
4	technology? 10:04:47	4	that mention XRP, Ripple, cryptocurrency 10:08:35
	A. Again correct. 10:04:47	5	or any other blockchain technology? 10:08:39
	Q. Do they mention digital assets? 10:04:48		A. Correct, not class notes. Again, 10:08:45
	A. No. 10:04:50	7	specifically class notes, notes I use for 10:08:52
	Q. Virtual currencies? 10:04:50	8	teaching, no. I believe I do not have any 10:08:55
	A. To the best of my recollection, no. 10:04:52	9	that specifically mention XRP, Ripple or 10:09:01
	Q. How about Bitcoin? 10:04:55	10	cryptocurrency. 10:09:05
	A. No. 10:04:56	11	Q. Or any other blockchain technology? 10:09:07
12	Q. Ethereum? 10:04:56	12	A. Correct. 10:09:09
12	Q. Ethereum? 10:04:56 A. No. 10:05:00	12 13	A. Correct. 10:09:09 Q. Slides, lecture outlines, do you have any 10:09:10
12	Q. Ethereum? 10:04:56  A. No. 10:05:00  Q. I'd like to direct your attention to Request 10:05:00	12	A. Correct. 10:09:09  Q. Slides, lecture outlines, do you have any 10:09:10 slides or lecture outlines that mention XRP, 10:09:14
12 13	Q. Ethereum? 10:04:56  A. No. 10:05:00  Q. I'd like to direct your attention to Request 10:05:00  No. 4, all opinions, reports, testimony 10:05:33	12 13	A. Correct. 10:09:09  Q. Slides, lecture outlines, do you have any 10:09:10 slides or lecture outlines that mention XRP, 10:09:14 Ripple, cryptocurrency or any other 10:09:17
12 13 14	Q. Ethereum? 10:04:56  A. No. 10:05:00  Q. I'd like to direct your attention to Request 10:05:00	12 13 14	A. Correct. 10:09:09  Q. Slides, lecture outlines, do you have any 10:09:10 slides or lecture outlines that mention XRP, 10:09:14
12 13 14 15	Q. Ethereum? 10:04:56  A. No. 10:05:00  Q. I'd like to direct your attention to Request 10:05:00  No. 4, all opinions, reports, testimony 10:05:33	12 13 14 15	A. Correct. 10:09:09  Q. Slides, lecture outlines, do you have any 10:09:10 slides or lecture outlines that mention XRP, 10:09:14 Ripple, cryptocurrency or any other 10:09:17
12 13 14 15 16	Q. Ethereum? 10:04:56  A. No. 10:05:00  Q. I'd like to direct your attention to Request 10:05:00  No. 4, all opinions, reports, testimony 10:05:33  and/or declarations you submitted that 10:05:39	12 13 14 15 16	A. Correct. 10:09:09  Q. Slides, lecture outlines, do you have any 10:09:10 slides or lecture outlines that mention XRP, 10:09:14 Ripple, cryptocurrency or any other 10:09:17 blockchain technology? 10:09:21
12 13 14 15 16 17	Q. Ethereum? 10:04:56  A. No. 10:05:00  Q. I'd like to direct your attention to Request 10:05:00  No. 4, all opinions, reports, testimony 10:05:33  and/or declarations you submitted that 10:05:39  pertain to damages in cases involving or 10:05:41	12 13 14 15 16 17	A. Correct. 10:09:09  Q. Slides, lecture outlines, do you have any 10:09:10 slides or lecture outlines that mention XRP, 10:09:14  Ripple, cryptocurrency or any other 10:09:17 blockchain technology? 10:09:21  A. Correct. 10:09:22
12 13 14 15 16 17 18	Q. Ethereum? 10:04:56  A. No. 10:05:00  Q. I'd like to direct your attention to Request 10:05:00  No. 4, all opinions, reports, testimony 10:05:33  and/or declarations you submitted that 10:05:39  pertain to damages in cases involving or 10:05:41  related to state or federal securities 10:05:45	12 13 14 15 16 17 18	A. Correct. 10:09:09  Q. Slides, lecture outlines, do you have any 10:09:10 slides or lecture outlines that mention XRP, 10:09:14  Ripple, cryptocurrency or any other 10:09:17 blockchain technology? 10:09:21  A. Correct. 10:09:22  Q. Correct, you don't have any? 10:09:23
12 13 14 15 16 17 18 19	Q. Ethereum? 10:04:56  A. No. 10:05:00  Q. I'd like to direct your attention to Request 10:05:00  No. 4, all opinions, reports, testimony 10:05:33  and/or declarations you submitted that 10:05:39  pertain to damages in cases involving or 10:05:41  related to state or federal securities 10:05:45  actions over the past ten years. Do you 10:05:48	12 13 14 15 16 17 18	A. Correct. 10:09:09  Q. Slides, lecture outlines, do you have any 10:09:10 slides or lecture outlines that mention XRP, 10:09:14  Ripple, cryptocurrency or any other 10:09:17 blockchain technology? 10:09:21  A. Correct. 10:09:22  Q. Correct, you don't have any? 10:09:23  A. I do not have those. 10:09:25
12 13 14 15 16 17 18 19 20	Q. Ethereum? 10:04:56  A. No. 10:05:00  Q. I'd like to direct your attention to Request 10:05:00  No. 4, all opinions, reports, testimony 10:05:33  and/or declarations you submitted that 10:05:39  pertain to damages in cases involving or 10:05:41  related to state or federal securities 10:05:45  actions over the past ten years. Do you 10:05:48  see that request? 10:05:50	12 13 14 15 16 17 18 19 20	A. Correct. 10:09:09  Q. Slides, lecture outlines, do you have any 10:09:10 slides or lecture outlines that mention XRP, 10:09:14  Ripple, cryptocurrency or any other 10:09:17 blockchain technology? 10:09:21  A. Correct. 10:09:22  Q. Correct, you don't have any? 10:09:23  A. I do not have those. 10:09:25  Q. And the notes that you paused for a moment 10:09:27
12 13 14 15 16 17 18 19 20 21	Q. Ethereum? 10:04:56  A. No. 10:05:00  Q. I'd like to direct your attention to Request 10:05:00  No. 4, all opinions, reports, testimony 10:05:33  and/or declarations you submitted that 10:05:39  pertain to damages in cases involving or 10:05:41  related to state or federal securities 10:05:45  actions over the past ten years. Do you 10:05:48  see that request? 10:05:50  A. I do. 10:05:50	12 13 14 15 16 17 18 19 20 21	A. Correct. 10:09:09 Q. Slides, lecture outlines, do you have any 10:09:10 slides or lecture outlines that mention XRP, 10:09:14 Ripple, cryptocurrency or any other 10:09:17 blockchain technology? 10:09:21 A. Correct. 10:09:22 Q. Correct, you don't have any? 10:09:23 A. I do not have those. 10:09:25 Q. And the notes that you paused for a moment 10:09:27 on notes. Do you have some kind of notes 10:09:29
12 13 14 15 16 17 18 19 20 21 22	Q. Ethereum? 10:04:56 A. No. 10:05:00 Q. I'd like to direct your attention to Request 10:05:00 No. 4, all opinions, reports, testimony 10:05:33 and/or declarations you submitted that 10:05:39 pertain to damages in cases involving or 10:05:41 related to state or federal securities 10:05:45 actions over the past ten years. Do you 10:05:48 see that request? 10:05:50 A. I do. 10:05:50 Q. Did you provide all documents responsive 10:05:51	12 13 14 15 16 17 18 19 20 21 22	A. Correct. 10:09:09 Q. Slides, lecture outlines, do you have any 10:09:10 slides or lecture outlines that mention XRP, 10:09:14 Ripple, cryptocurrency or any other 10:09:17 blockchain technology? 10:09:21 A. Correct. 10:09:22 Q. Correct, you don't have any? 10:09:23 A. I do not have those. 10:09:25 Q. And the notes that you paused for a moment 10:09:27 on notes. Do you have some kind of notes 10:09:31
12 13 14 15 16 17 18 19 20 21 22 23	Q. Ethereum? 10:04:56 A. No. 10:05:00 Q. I'd like to direct your attention to Request 10:05:00 No. 4, all opinions, reports, testimony 10:05:33 and/or declarations you submitted that 10:05:39 pertain to damages in cases involving or 10:05:41 related to state or federal securities 10:05:45 actions over the past ten years. Do you 10:05:48 see that request? 10:05:50 A. I do. 10:05:50 Q. Did you provide all documents responsive 10:05:51 to this request to your counsel? 10:05:58	12 13 14 15 16 17 18 19 20 21 22 23 24	A. Correct. 10:09:09  Q. Slides, lecture outlines, do you have any 10:09:10 slides or lecture outlines that mention XRP, 10:09:14 Ripple, cryptocurrency or any other 10:09:17 blockchain technology? 10:09:21  A. Correct. 10:09:22  Q. Correct, you don't have any? 10:09:23  A. I do not have those. 10:09:25  Q. And the notes that you paused for a moment 10:09:27 on notes. Do you have some kind of notes 10:09:29 other than class notes that mention XRP, 10:09:31  Ripple, cryptocurrency or other blockchain 10:09:34

## Case 4:18-cv-06753-PJH Document 243-4 Filed 04/19/23 Page 9 of 80

	1	
1 hesitation was I believe in an exam, a 10:09:42	1	page says Exhibit 62 and the next page 10:12:17
2 midterm exam or a final exam I may have 10:09:45	2	identifies it as the expert report of 10:12:21
3 used Bitcoin as an example, and then I'm 10:09:49	3	Professor Steven P. Feinstein dated 10:12:24
4 thinking if I provide the answer key to 10:09:57	4	November 18, 2022 in this case. Do you 10:12:27
5 the exam to the students, is that considered 10:10:00	5	recognize this document? 10:12:30
6 class notes or not, I'm not sure. But I 10:10:02	6	A. I do. 10:12:31
7 think there may be an answer I didn't 10:10:04	7	Q. Is this the report that you've 10:12:31
8 interpret it this way when I responded to 10:10:07	8	A. It is. 10:12:34
9 the exhibit, but I certainly will if you 10:10:09	9	Q. I'll represent it's the report that you 10:12:34
10 think that's how it should be interpreted, 10:10:13	10	submitted in this case. So you mention 10:12:37
11 provide that, but I think there was an exam 10:10:15	11	in your teaching of your classes, you're a 10:12:42
12 question that mentioned Bitcoin and then 10:10:17	12	professor? 10:12:45
13 there would be a key that also mentions 10:10:21	13	A. That's right. 10:12:46
14 Bitcoin, but that's not, those aren't 10:10:23	14	Q. Where do you teach? 10:12:46
15 teaching notes. 10:10:25	15	A. Babson College. 10:12:47
16 Q. I understand. Do you remember what the 10:10:26	16	Q. How long have you been a professor there? 10:12:48
17 nature of the exam question was? 10:10:30	17	A. Since 1996. 10:12:50
18 A. Sure. It was derivatives of I think it 10:10:33	18	Q. Do you teach anywhere outside of Babson 10:12:51
19 was I think I had taken an old test 10:10:37	19	College? 10:12:57
20 question about buying a future contract or 10:10:39	20	A. No, not presently. 10:12:57
21 forward contract tied to some other 10:10:42	21	Q. And how would you describe sort of the 10:12:58
22 commodity, and then for the students I had 10:10:44	22	focus of your teaching? 10:13:02
23 last year just changed whatever commodity 10:10:47	23	A. I'm a finance professor so I teach in the 10:13:04
24 that was to Bitcoin. It was a question about 10:10:49	24	finance division, I teach finance courses. 10:13:08
25 how to price futures or forwards. 10:10:54	25	Within finance, my areas of concentration 10:13:11
Page 26		Page 28
1 Q. So moving to Exhibit 10 10:10:56	1	finance is broadly divided into investments 10:13:15
2 A. Actually, I just want to be complete. 10:11:08	2	and corporate investments, industry and 10:13:18
3 I'm thinking now and, again, my thinking 10:11:10	3	field versus corporate finance and corporate 10:13:21
4 now is a little bit different from what 10:11:12	4	managerial decisions. I tend to specialize 10:13:24
5 my thinking was at the time, but I believe 10:11:15	5	
, ,	3	in the investment side, and in the investment 10:13:27
6 in the syllabus for these classes that I 10:11:17	6	in the investment side, and in the investment 10:13:27 side my areas of research and teaching are 10:13:30
6 in the syllabus for these classes that I 10:11:17 7 taught over the last couple of years, I 10:11:20		side my areas of research and teaching are 10:13:30
7 taught over the last couple of years, I 10:11:20	6 7	side my areas of research and teaching are 10:13:30 securities, stocks, bonds and derivatives. 10:13:35
7 taught over the last couple of years, I 10:11:20 8 do assign that the students can or must 10:11:21	6 7 8	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35  Q. Do you publish in the field of finance? 10:13:45
7 taught over the last couple of years, I 10:11:20 8 do assign that the students can or must 10:11:21 9 write a term paper, there's a term project, 10:11:23	6 7 8 9	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35  Q. Do you publish in the field of finance? 10:13:45  A. Yes. 10:13:53
7 taught over the last couple of years, I 10:11:20 8 do assign that the students can or must 10:11:21 9 write a term paper, there's a term project, 10:11:23 10 and in the syllabus there's a list of 10:11:26	6 7 8 9 10	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35  Q. Do you publish in the field of finance? 10:13:45  A. Yes. 10:13:53  Q. So turning to your report on the second 10:13:54
7 taught over the last couple of years, I 10:11:20 8 do assign that the students can or must 10:11:21 9 write a term paper, there's a term project, 10:11:23 10 and in the syllabus there's a list of 10:11:26 11 suggested term paper topics or permissible 10:11:31	6 7 8 9 10 11	side my areas of research and teaching are securities, stocks, bonds and derivatives.  Q. Do you publish in the field of finance?  A. Yes.  10:13:35  10:13:45  A. Yes.  10:13:53  Q. So turning to your report on the second page, Paragraph 10, you write that you  10:13:59
7 taught over the last couple of years, I 10:11:20 8 do assign that the students can or must 10:11:21 9 write a term paper, there's a term project, 10:11:23 10 and in the syllabus there's a list of 10:11:26 11 suggested term paper topics or permissible 10:11:31 12 term paper topics just to spur their 10:11:36	6 7 8 9 10 11 12	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35  Q. Do you publish in the field of finance? 10:13:45  A. Yes. 10:13:53  Q. So turning to your report on the second page, Paragraph 10, you write that you published in the field of finance and you 10:14:06
7 taught over the last couple of years, I 10:11:20 8 do assign that the students can or must 10:11:21 9 write a term paper, there's a term project, 10:11:23 10 and in the syllabus there's a list of 10:11:26 11 suggested term paper topics or permissible 10:11:31 12 term paper topics just to spur their 10:11:36 13 creativity, and there I might have said 10:11:40	6 7 8 9 10 11 12 13	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35  Q. Do you publish in the field of finance? 10:13:45  A. Yes. 10:13:53  Q. So turning to your report on the second page, Paragraph 10, you write that you published in the field of finance and you 10:13:59 published in the field of finance and you list some articles. Are any of these 10:14:08
7 taught over the last couple of years, I 10:11:20 8 do assign that the students can or must 10:11:21 9 write a term paper, there's a term project, 10:11:23 10 and in the syllabus there's a list of 10:11:26 11 suggested term paper topics or permissible 10:11:31 12 term paper topics just to spur their 10:11:36 13 creativity, and there I might have said 10:11:40 14 something about you may wish to investigate 10:11:41	6 7 8 9 10 11 12 13 14	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35  Q. Do you publish in the field of finance? 10:13:45  A. Yes. 10:13:53  Q. So turning to your report on the second page, Paragraph 10, you write that you published in the field of finance and you 10:13:59 published in the field of finance and you list some articles. Are any of these articles about cryptocurrency? 10:14:11
7 taught over the last couple of years, I 10:11:20 8 do assign that the students can or must 10:11:21 9 write a term paper, there's a term project, 10:11:23 10 and in the syllabus there's a list of 10:11:26 11 suggested term paper topics or permissible 10:11:31 12 term paper topics just to spur their 10:11:36 13 creativity, and there I might have said 10:11:40 14 something about you may wish to investigate 10:11:41 15 futures, forwards and options that are 10:11:46	6 7 8 9 10 11 12 13 14 15	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35  Q. Do you publish in the field of finance? 10:13:45  A. Yes. 10:13:53  Q. So turning to your report on the second page, Paragraph 10, you write that you published in the field of finance and you 10:13:59 published in the field of finance and you list some articles. Are any of these 10:14:08 articles about cryptocurrency? 10:14:11  A. Not specifically. 10:14:15
taught over the last couple of years, I 10:11:20  8 do assign that the students can or must 10:11:21  9 write a term paper, there's a term project, 10:11:23  10 and in the syllabus there's a list of 10:11:26  11 suggested term paper topics or permissible 10:11:31  12 term paper topics just to spur their 10:11:36  13 creativity, and there I might have said 10:11:40  14 something about you may wish to investigate 10:11:41  15 futures, forwards and options that are 10:11:46  16 tied to cryptocurrency, so the word 10:11:47	6 7 8 9 10 11 12 13 14 15 16	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35  Q. Do you publish in the field of finance? 10:13:45  A. Yes. 10:13:53  Q. So turning to your report on the second page, Paragraph 10, you write that you published in the field of finance and you 10:13:59 published in the field of finance and you 10:14:06 list some articles. Are any of these 10:14:08 articles about cryptocurrency? 10:14:11  A. Not specifically. 10:14:15  MR. SPEAR: I'll just object. It 10:14:17
taught over the last couple of years, I 10:11:20  8 do assign that the students can or must 10:11:21  9 write a term paper, there's a term project, 10:11:23  10 and in the syllabus there's a list of 10:11:26  11 suggested term paper topics or permissible 10:11:31  12 term paper topics just to spur their 10:11:36  13 creativity, and there I might have said 10:11:40  14 something about you may wish to investigate 10:11:41  15 futures, forwards and options that are 10:11:46  16 tied to cryptocurrency, so the word 10:11:47  17 "cryptocurrency" may be in my syllabus for 10:11:49	6 7 8 9 10 11 12 13 14 15 16	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35  Q. Do you publish in the field of finance? 10:13:45  A. Yes. 10:13:53  Q. So turning to your report on the second page, Paragraph 10, you write that you published in the field of finance and you 10:13:59 published in the field of finance and you 10:14:06 list some articles. Are any of these articles about cryptocurrency? 10:14:11  A. Not specifically. 10:14:15  MR. SPEAR: I'll just object. It 10:14:17 doesn't list articles. It lists places where 10:14:19
7 taught over the last couple of years, I 10:11:20 8 do assign that the students can or must 10:11:21 9 write a term paper, there's a term project, 10:11:23 10 and in the syllabus there's a list of 10:11:26 11 suggested term paper topics or permissible 10:11:31 12 term paper topics just to spur their 10:11:36 13 creativity, and there I might have said 10:11:40 14 something about you may wish to investigate 10:11:41 15 futures, forwards and options that are 10:11:46 16 tied to cryptocurrency, so the word 10:11:47 17 "cryptocurrency" may be in my syllabus for 10:11:49 18 that reason. But, again, at the time 10:11:53	6 7 8 9 10 11 12 13 14 15 16 17 18	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35  Q. Do you publish in the field of finance? 10:13:45  A. Yes. 10:13:53  Q. So turning to your report on the second page, Paragraph 10, you write that you published in the field of finance and you 10:13:59 published in the field of finance and you 10:14:06 list some articles. Are any of these articles about cryptocurrency? 10:14:11  A. Not specifically. 10:14:15  MR. SPEAR: I'll just object. It 10:14:17 doesn't list articles. It lists places where 10:14:19 articles appeared. Go ahead. 10:14:24
taught over the last couple of years, I 10:11:20  8 do assign that the students can or must 10:11:21  9 write a term paper, there's a term project, 10:11:23  10 and in the syllabus there's a list of 10:11:26  11 suggested term paper topics or permissible 10:11:31  12 term paper topics just to spur their 10:11:36  13 creativity, and there I might have said 10:11:40  14 something about you may wish to investigate 10:11:41  15 futures, forwards and options that are 10:11:46  16 tied to cryptocurrency, so the word 10:11:47  17 "cryptocurrency" may be in my syllabus for 10:11:49  18 that reason. But, again, at the time 10:11:53  19 responding to this production, I didn't 10:11:55	6 7 8 9 10 11 12 13 14 15 16 17 18	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35  Q. Do you publish in the field of finance? 10:13:45  A. Yes. 10:13:53  Q. So turning to your report on the second page, Paragraph 10, you write that you published in the field of finance and you 10:13:59 published in the field of finance and you 10:14:06 list some articles. Are any of these 10:14:08 articles about cryptocurrency? 10:14:11  A. Not specifically. 10:14:15  MR. SPEAR: I'll just object. It 10:14:17 doesn't list articles. It lists places where 10:14:19 articles appeared. Go ahead. 10:14:24  A. The answer is not specifically, although 10:14:24
taught over the last couple of years, I 10:11:20  8 do assign that the students can or must 10:11:21  9 write a term paper, there's a term project, 10:11:23  10 and in the syllabus there's a list of 10:11:26  11 suggested term paper topics or permissible 10:11:31  12 term paper topics just to spur their 10:11:36  13 creativity, and there I might have said 10:11:40  14 something about you may wish to investigate 10:11:41  15 futures, forwards and options that are 10:11:46  16 tied to cryptocurrency, so the word 10:11:47  17 "cryptocurrency" may be in my syllabus for 10:11:49  18 that reason. But, again, at the time 10:11:53  19 responding to this production, I didn't 10:11:55  20 think that that fit the definition of 10:11:56	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35 Q. Do you publish in the field of finance? 10:13:45 A. Yes. 10:13:53 Q. So turning to your report on the second page, Paragraph 10, you write that you published in the field of finance and you 10:13:59 published in the field of finance and you 10:14:06 list some articles. Are any of these 10:14:08 articles about cryptocurrency? 10:14:11 A. Not specifically. 10:14:15 MR. SPEAR: I'll just object. It 10:14:17 doesn't list articles. It lists places where 10:14:19 articles appeared. Go ahead. 10:14:24 A. The answer is not specifically, although 10:14:24 cryptocurrency is an area of analysis and 10:14:27
taught over the last couple of years, I 10:11:20  8 do assign that the students can or must 10:11:21  9 write a term paper, there's a term project, 10:11:23  10 and in the syllabus there's a list of 10:11:26  11 suggested term paper topics or permissible 10:11:31  12 term paper topics just to spur their 10:11:36  13 creativity, and there I might have said 10:11:40  14 something about you may wish to investigate 10:11:41  15 futures, forwards and options that are 10:11:46  16 tied to cryptocurrency, so the word 10:11:47  17 "cryptocurrency" may be in my syllabus for 10:11:49  18 that reason. But, again, at the time 10:11:53  19 responding to this production, I didn't 10:11:55  20 think that that fit the definition of 10:11:59	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	side my areas of research and teaching are securities, stocks, bonds and derivatives.  Q. Do you publish in the field of finance? 10:13:45  A. Yes. 10:13:53  Q. So turning to your report on the second page, Paragraph 10, you write that you published in the field of finance and you published in the field of finance in the field of finance and you published in the field of finance in the field of fina
taught over the last couple of years, I 10:11:20  8 do assign that the students can or must 10:11:21  9 write a term paper, there's a term project, 10:11:23  10 and in the syllabus there's a list of 10:11:26  11 suggested term paper topics or permissible 10:11:31  12 term paper topics just to spur their 10:11:36  13 creativity, and there I might have said 10:11:40  14 something about you may wish to investigate 10:11:41  15 futures, forwards and options that are 10:11:46  16 tied to cryptocurrency, so the word 10:11:47  17 "cryptocurrency" may be in my syllabus for 10:11:49  18 that reason. But, again, at the time 10:11:53  19 responding to this production, I didn't 10:11:55  20 think that that fit the definition of 10:11:56  21 statements, publications, writing notes, 10:11:59  22 slides or presentations. 10:12:01	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35 Q. Do you publish in the field of finance? 10:13:45 A. Yes. 10:13:53 Q. So turning to your report on the second page, Paragraph 10, you write that you 10:13:59 published in the field of finance and you 10:14:06 list some articles. Are any of these 10:14:08 articles about cryptocurrency? 10:14:11 A. Not specifically. 10:14:15 MR. SPEAR: I'll just object. It 10:14:17 doesn't list articles. It lists places where 10:14:19 articles appeared. Go ahead. 10:14:24 A. The answer is not specifically, although 10:14:24 cryptocurrency is an area of analysis and 10:14:27 research and study that falls within finance, 10:14:30 and my articles apply generally to finance. 10:14:33
taught over the last couple of years, I 10:11:20  8 do assign that the students can or must 10:11:21  9 write a term paper, there's a term project, 10:11:23  10 and in the syllabus there's a list of 10:11:26  11 suggested term paper topics or permissible 10:11:31  12 term paper topics just to spur their 10:11:36  13 creativity, and there I might have said 10:11:40  14 something about you may wish to investigate 10:11:41  15 futures, forwards and options that are 10:11:46  16 tied to cryptocurrency, so the word 10:11:47  17 "cryptocurrency" may be in my syllabus for 10:11:49  18 that reason. But, again, at the time 10:11:53  19 responding to this production, I didn't 10:11:55  20 think that that fit the definition of 10:11:56  21 statements, publications, writing notes, 10:12:01  23 Q. Thank you. So you should have in front 10:12:03	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35  Q. Do you publish in the field of finance? 10:13:45  A. Yes. 10:13:53  Q. So turning to your report on the second page, Paragraph 10, you write that you published in the field of finance and you 10:13:59 published in the field of finance and you 10:14:06 list some articles. Are any of these 10:14:08 articles about cryptocurrency? 10:14:11  A. Not specifically. 10:14:15  MR. SPEAR: I'll just object. It 10:14:17 doesn't list articles. It lists places where 10:14:19 articles appeared. Go ahead. 10:14:24  A. The answer is not specifically, although 10:14:24 cryptocurrency is an area of analysis and 10:14:27 research and study that falls within finance, 10:14:30 and my articles apply generally to finance. 10:14:33  Q. So you're saying your articles are sort of 10:14:37
taught over the last couple of years, I 10:11:20  8 do assign that the students can or must 10:11:21  9 write a term paper, there's a term project, 10:11:23  10 and in the syllabus there's a list of 10:11:26  11 suggested term paper topics or permissible 10:11:31  12 term paper topics just to spur their 10:11:36  13 creativity, and there I might have said 10:11:40  14 something about you may wish to investigate 10:11:41  15 futures, forwards and options that are 10:11:46  16 tied to cryptocurrency, so the word 10:11:47  17 "cryptocurrency" may be in my syllabus for 10:11:49  18 that reason. But, again, at the time 10:11:53  19 responding to this production, I didn't 10:11:55  20 think that that fit the definition of 10:11:56  21 statements, publications, writing notes, 10:11:59  22 slides or presentations. 10:12:01  23 Q. Thank you. So you should have in front 10:12:03  24 of you Exhibit 10, which is a copy of I'll 10:12:10	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35  Q. Do you publish in the field of finance? 10:13:45  A. Yes. 10:13:53  Q. So turning to your report on the second page, Paragraph 10, you write that you published in the field of finance and you 10:13:59 published in the field of finance and you 10:14:06 list some articles. Are any of these articles about cryptocurrency? 10:14:11  A. Not specifically. 10:14:15  MR. SPEAR: I'll just object. It 10:14:17 doesn't list articles. It lists places where 10:14:19 articles appeared. Go ahead. 10:14:24  A. The answer is not specifically, although cryptocurrency is an area of analysis and research and study that falls within finance, and my articles apply generally to finance. 10:14:33  Q. So you're saying your articles are sort of generally about finance and so principles 10:14:39
taught over the last couple of years, I 10:11:20  8 do assign that the students can or must 10:11:21  9 write a term paper, there's a term project, 10:11:23  10 and in the syllabus there's a list of 10:11:26  11 suggested term paper topics or permissible 10:11:31  12 term paper topics just to spur their 10:11:36  13 creativity, and there I might have said 10:11:40  14 something about you may wish to investigate 10:11:41  15 futures, forwards and options that are 10:11:46  16 tied to cryptocurrency, so the word 10:11:47  17 "cryptocurrency" may be in my syllabus for 10:11:49  18 that reason. But, again, at the time 10:11:53  19 responding to this production, I didn't 10:11:55  20 think that that fit the definition of 10:11:56  21 statements, publications, writing notes, 10:12:01  23 Q. Thank you. So you should have in front 10:12:03	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	side my areas of research and teaching are securities, stocks, bonds and derivatives. 10:13:35  Q. Do you publish in the field of finance? 10:13:45  A. Yes. 10:13:53  Q. So turning to your report on the second page, Paragraph 10, you write that you published in the field of finance and you 10:13:59 published in the field of finance and you 10:14:06 list some articles. Are any of these 10:14:08 articles about cryptocurrency? 10:14:11  A. Not specifically. 10:14:15  MR. SPEAR: I'll just object. It 10:14:17 doesn't list articles. It lists places where 10:14:19 articles appeared. Go ahead. 10:14:24  A. The answer is not specifically, although 10:14:24 cryptocurrency is an area of analysis and 10:14:27 research and study that falls within finance, 10:14:30 and my articles apply generally to finance. 10:14:33  Q. So you're saying your articles are sort of 10:14:37

2				
3 A. No. 10:17:57		cryptocurrency? 10:14:45		
A. Correct   10:14:57   10:14:57   10:14:57   10:14:57   10:14:57   10:14:57   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:59   10:17:5		•		
5 Q. Okay. Is cryptocurrency, in your view.   10:14:53   6   just like other assets that are invested in?   10:14:57   6 A. No.   10:17:59   7   MR. SPEAR: Objection, scope.   10:15:07   10:15:10   10:15:07   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10   10:15:10	l .	• • • • • • • • • • • • • • • • • • • •	3	
6 just like other assets that are invested in? 10.14-57   7 MR. SPEAR: Objection, scope. 10.15-07   9 are similarities and there are differences. 10.15-10   10.15-01   9 A. No. 10.18-05   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01   10.18-01			4	• • •
MR. SPEAR: Objection, scope.   10.15.05   7   Q. Did you review any in preparation for page   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.00   10.18.40   10.18.00   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   10.18.40   1			5	•
8		-	6	
9			7	
10   Q. You'd agree that there's some differences   10:15:11   10   Q. Fd like to direct your attention to Page   10:18:06		* *	8	
10	l		-	
1.			10	, c
13		**		
14 A. Sure, just as there's differences between 10:15:22   15 stocks and bonds or bonds and derivatives. 10:15:25   16 Q. Is a model to calculate profit or loss on an investment of stock the same as a model 10:15:43   17 Q. It's Exhibit 2. It lists your business 10:18:57   18 to calculate profit or loss on an investment 10:15:45   18 to calculate profit or loss on an investment 10:15:45   19 designations. 10:18:57   19 designations. 10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:				
15   Stocks and bonds or bonds and derivatives   10:15:25   16   Q. Is a model to calculate profit or loss on minvestment of stock the same as a model   10:15:45   18   to calculate profit or loss on an investment of stock the same as a model   10:15:45   18   to calculate profit or loss on an investment of stock the same as a model   10:15:45   18   experience and then professional   10:18:57   10:18:57   10:18:57   10:18:57   10:18:57   19   designations   10:18:57   10:18:57   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59		3	13	
16   Q. Is a model to calculate profit or loss on   10:15:27   an investment of stock the same as a model   10:15:43   17   Q. If's Exhibit 2. It lists your business   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:59   10:18:		-	14	Q. The page numbers good question. The 10:18:44
17			15	page numbers at the bottom. 10:18:47
18		•	16	A. Okay. 10:18:47
19 in bonds? 10:15:49			17	Q. It's Exhibit 2. It lists your business 10:18:50
MR. SPEAR: Objection, scope.   10:15:50   20   A. I'm there.   10:18:57   21   A. It really depends on the context and the   10:15:52   22   specifics. It can be or it might not be.   10:15:58   22   from 2008 to present, Crowninshield Financial   10:19:03   10:19:05   23   Research. What is that?   10:19:06   24   calculate profit or loss on an investment   10:16:05   10:16:05   25   of cryptocurrency, which is to say it could   10:16:05   Page 30   24   A. That's a consulting firm that I founded   10:19:07   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10   10:19:10		-	18	
21 A. It really depends on the context and the perith of the profit or loss on an investment of cryptocurrency, which is to say it could be same or different as models to 10:16:05 of cryptocurrency, which is to say it could be the same or different as models to 10:16:11 of cryptocurrency, which is to say it could be the same or different as models to 10:16:11 of cryptocurrency, which is to say it could be the same or different as models to 10:16:11 of cryptocurrency, which is to say it could be the same or different as models to 10:16:14 of calculate profit or loss on investments 10:16:14 of calculate profit or loss on investments 10:16:14 of calculate profit or loss on investments 10:16:15 of calculate profit or loss on investments 10:16:16 of calculate profit or loss on investments 10:16:14 of calculate profit or loss on investments 10:16:18 of calculate profit or loss on investments 10:16:16 of calculate profit or loss on investments 10			19	
22   Specifics   Team be or it might not be   10:15:56   23   Research. What is that?   10:19:06   10:19:06   25   10:19:07   26   27   27   27   28   28   29   29   29   29   29   29			20	A. I'm there. 10:18:57
23   Q. Would the same be true for a model to calculate profit or loss on an investment of calculate profit or loss on investments of calculate profit or loss on investments or different as models to 10:16:11			21	-
24   calculate profit or loss on an investment of corpytocurrency, which is to say it could be page 30   10:16:08   Page 30   25   located in Brookline, Massachusetts. It's   10:19:13   Page 32   1   be the same or different as models to   10:16:11   1   a staff of analysts and experts and we   10:19:19   2   calculate profit or loss on investments   10:16:14   2   conduct financial research and analysis on   10:19:19   2   calculate profit or loss on investments   10:16:16   3   a contract basis with a focus primarily,   10:19:27   4   although not exclusively, in the area of   10:19:31   10:19:31   10:19:35   10:19:35   10:19:34   4   although not exclusively, in the area of   10:19:31   10:19:35   10:19:35   7   Q. You mentioned that you had a CFA designation.   10:16:41   8   litigation?   10:19:51   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:55   10:19:5	22	-	22	
25   of cryptocurrency, which is to say it could   10:16:08   Page 30   25   located in Brookline, Massachusetts. It's   10:19:13   Page 32				
Page 30   Page 32		-		A. That's a consulting firm that I founded 10:19:07
1 be the same or different as models to   10:16:11   2   calculate profit or loss on investments   10:16:14   2   conduct financial research and analysis on   10:19:24   3   a contract basis with a focus primarily,   10:19:27   4   although not exclusively, in the area of   10:19:31   5   MR. SPEAR: Same objection.   10:16:18   5   forensic finance.   10:19:34   4   although not exclusively, in the area of   10:19:31   5   MR. SPEAR: Same objection.   10:16:18   5   forensic finance.   10:19:34   4   although not exclusively, in the area of   10:19:31   5   forensic finance.   10:19:34   4   although not exclusively, in the area of   10:19:31   5   forensic finance.   10:19:34   7   (2)   Many answer is yes.   10:16:21   7   testimony and expert reports in support of   10:19:35   7   testimony and expert reports in support of   10:19:49   8   litigation?   10:19:51   9   A. Yes.   10:19:51   9   A. Yes.   10:19:51   10   Urs the premier practitioner credential   10:16:48   10   Q. Would you say that that's the primary, its   10:19:52   11   primary business?   10:19:55   12   A. Yes.   10:19:56   13   that's what it is. It's awarded after the   10:17:03   13   Q. Is it its sole business?   10:19:56   14   A. No.   10:19:58   10:19:58   15   progressively more and more difficult exams,   10:17:15   16   say is providing expert testimony and   10:20:01   10:20:03   18   sort of a requisite amount of time spent   10:17:22   18   A. Well, I guess I would need some clarification   10:20:04   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:20:03   10:2	25		25	
2 calculate profit or loss on investments 10:16:14 3 in stocks or bonds, depends on the 10:16:16 4 circumstances? 10:16:17 5 MR. SPEAR: Same objection. 10:16:18 6 A. My answer is yes. 10:16:21 7 Q. You mentioned that you had a CFA designation. 10:16:22 8 What is a CFA designation? 10:16:41 9 A. CFA stands for Chartered Financial Analyst. 10:16:43 10 It's the premier practitioner credential 10:16:58 11 among practicing financial professionals. 10:16:52 12 It's awarded by the CFA Institute and 10:17:08 13 that's what it is. It's awarded after the 10:17:08 14 candidate passes a series of three 10:17:08 15 progressively more and more difficult exams, 10:17:15 16 shows proficiency in mastering generally working as a professional financial analyst. 10:17:25 19 Q. When did you obtain your CFA designation, 10:17:24 20 Q. When did you obtain your CFA designation, 10:17:34 21 As the CFA Institute issued any papers 10:17:34 22 Q. Has the CFA Institute issued any papers 10:17:48 23 Q. Has the CFA Institute issued any papers 10:17:48 24 A. It varies from year to year. It's always 10:20:33 25 cryptocurrency? 10:17:50 20 Conduct financial research and analysis on 10:19:27 31 acontract basis with a focus primarily, 10:19:27 4 although not exclusively, in the area of 10:19:31 5 forensic finance. 10:19:34 5 forensic finance. 10:19:34 6 Q. Does this organization provide expert 10:19:35 7 testimony and expert reports in support of 10:19:49 8 litigation? 10:19:51 9 A. Yes. 10:19:55 11 primary business? 10:19:55 12 primary business? 10:19:55 13 Q. Is it its sole business? 10:19:55 14 A. No. 10:19:58 15 Q. What percentage of its business would you 10:19:59 16 say is providing expert testimony and 10:20:01 17 accepted principles in finance and has 10:17:19 18 A. Well, I guess I would need some clarification 10:20:04 19 working as a professional financial analyst. 10:17:22 20 Q. When the exhibit on Page 10. 1998. 10:17:34 21 that wouldn't be testimony or report. 10:20:23 22 Q. Has the CFA Institute issued any papers 10:17:48 23 Q. Has		Page 30		Page 32
3 in stocks or bonds, depends on the 10:16:16	1		1	a staff of analysts and experts and we 10:19:19
4 circumstances? 10:16:17 5 MR. SPEAR: Same objection. 10:16:18 6 A. My answer is yes. 10:16:21 7 Q. You mentioned that you had a CFA designation. 10:16:22 8 What is a CFA designation? 10:16:41 9 A. CFA stands for Chartered Financial Analyst. 10:16:48 10 It's the premier practitioner credential 10:16:58 11 among practicing financial professionals. 10:16:52 12 It's awarded by the CFA Institute and 10:16:58 13 that's what it is. It's awarded after the 10:17:03 14 candidate passes a series of three 10:17:03 15 shows proficiency in mastering generally 10:17:15 16 shows proficiency in mastering generally 10:17:15 17 accepted principles in finance and has 10:17:22 18 sort of a requisite amount of time spent 10:17:25 19 Q. When did you obtain your CFA designation, 10:17:25 20 Q. When did you obtain your CFA designation, 10:17:34 21 A. It's in the exhibit on Page 10. 1998. 10:17:34 22 Q. Has the CFA Institute issued any papers 10:17:42 23 would you say that that's the primary, its 10:19:51 24 although not exclusively, in the area of 10:19:34 25 cryptocurrency? 10:17:18 24 although not exclusively, in the area of 10:19:34 25 forensic finance. 10:10:19:34 26 Q. Does this organization provide expert 10:19:35 27 testimony and expert reports in support of 10:19:49 28 plot of 10:19:49 29 Q. Would you say that that's the primary, its 10:19:52 11 primary business? 10:19:55 11 primary business? 10:19:55 12 A. Yes. 10:19:55 13 Q. What percentage of its business would you 10:19:59 14 A. No. 10:19:58 15 Q. What percentage of its business would you 10:19:59 16 shows proficiency in mastering generally 10:17:13 16 say is providing expert testimony and 10:20:04 17 accepted principles in finance and has 10:17:29 18 A. Well, I guess I would need some clarification 10:20:04 19 working as a professional financial analyst. 10:17:28 20 Q. When did you obtain your CFA designation, 10:17:34 21 that wouldn't be testimony or report. 10:20:23 22 A. It's in the exhibit on Page 10. 1998. 10:17:42 23 would you say it in support of litigation? 10:2	2	calculate profit or loss on investments 10:16:14	2	conduct financial research and analysis on 10:19:24
5         MR. SPEAR: Same objection.         10:16:18         5         forensic finance.         10:19:34           6         A. My answer is yes.         10:16:21         6         Q. Does this organization provide expert         10:19:35           7         Q. You mentioned that you had a CFA designation.         10:16:22         7         testimony and expert reports in support of         10:19:49           8         What is a CFA designation?         10:16:41         8         litigation?         10:19:51           9         A. CFA stands for Chartered Financial Analyst.         10:16:43         9         A. Yes.         10:19:51           10         It's the premier practitioner credential         10:16:54         10         Q. Would you say that that's the primary, its         10:19:52           11         among practicing financial professionals.         10:16:52         11         primary business?         10:19:55           12         It's awarded by the CFA Institute and         10:16:58         12         A. Yes.         10:19:56           13         that's what it is. It's awarded after the         10:17:08         14         A. No.         10:19:56           14         candidate passes a series of three         10:17:13         15         Q. What percentage of its business would you         10:19:59	3	in stocks or bonds, depends on the 10:16:16	3	a contract basis with a focus primarily, 10:19:27
6 A. My answer is yes. 10:16:21 7 Q. You mentioned that you had a CFA designation. 10:16:22 8 What is a CFA designation? 10:16:41 9 A. CFA stands for Chartered Financial Analyst. 10:16:48 10 It's the premier practitioner credential 10:16:48 11 among practicing financial professionals. 10:16:52 12 It's awarded by the CFA Institute and 10:16:58 13 that's what it is. It's awarded after the 10:17:03 14 candidate passes a series of three 10:17:08 15 progressively more and more difficult exams. 10:17:15 16 shows proficiency in mastering generally 10:17:15 17 accepted principles in finance and has 10:17:22 18 sort of a requisite amount of time spent 10:17:22 19 working as a professional financial analyst. 10:17:25 20 Q. When did you obtain your CFA designation, 10:17:34 21 Q. Has the CFA Institute issued any papers 10:17:42 22 Q. Fair enough. What percentage of its business 10:20:28 23 Q. Has the CFA Institute issued any papers 10:17:49 24 A. It's aries from year to year. It's always 10:20:33 25 cryptocurrency? 10:17:50  10:10:16:41 28 litigation? 10:19:51 29 A. Yes. 10:19:51 20 Q. Would you say that that's the primary, its 10:19:52 11 primary business? 10:19:55 11 primary business? 10:19:55 12 A. Yes. 10:19:56 13 Q. Is it its sole business? 10:19:56 14 A. No. 10:19:59 15 say is providing expert testimony and 10:20:01 16 say is providing expert testimony and 10:20:01 17 reports? 10:20:03 18 A. Well, I guess I would need some clarification 10:20:04 19 on your question. Sometimes we are asked 10:20:18 20 Q. When did you obtain your CFA designation, 10:17:28 21 that wouldn't be testimony or report. 10:20:23 22 A. It's in the exhibit on Page 10. 1998. 10:17:42 23 would you say is in support of litigation? 10:20:23 24 A. It varies from year to year. It's always 10:20:33 25 cryptocurrency? 10:17:50 26 Q. Washed the primary, its 10:19:55 27 testimony and expert reports in support of 10:10:19:59 28 litigation? 10:19:59 29 A. Ves. 10:19:55 20 Q. Wene did you obtain your CFA designation, 10:17:22 20 Q. Fair enough. What percent	4	circumstances? 10:16:17	4	although not exclusively, in the area of 10:19:31
7 Q. You mentioned that you had a CFA designation. 10:16:22 8 What is a CFA designation? 10:16:41 9 A. CFA stands for Chartered Financial Analyst. 10:16:43 10 It's the premier practitioner credential 10:16:48 11 among practicing financial professionals. 10:16:52 11 among practicing financial professionals. 10:16:52 11 among practicing financial professionals. 10:16:58 12 It's awarded by the CFA Institute and 10:16:58 13 that's what it is. It's awarded after the 10:17:03 14 candidate passes a series of three 10:17:08 15 progressively more and more difficult exams, 10:17:15 16 shows proficiency in mastering generally 10:17:15 17 accepted principles in finance and has 10:17:19 18 sort of a requisite amount of time spent 10:17:22 19 working as a professional financial analyst. 10:17:25 10 Q. When did you obtain your CFA designation, 10:17:28 20 Q. When did you obtain your CFA designation, 10:17:48 21 A. It's in the exhibit on Page 10. 1998. 10:17:34 22 Q. Fair enough. What percentage of its business 10:20:28 24 Or publications on the subject of 10:17:48 25 cryptocurrency? 10:17:50 26 testimony and expert reports in support of 10:19:19 28 litigation? 10:19:51 29 A. Yes. 10:19:55 20 Q. Would you say that that's the primary, its 10:19:52 21 that was a that's the primary, its 10:19:52 21 that was a that's the primary, its 10:19:52 21 that was a that's the primary, its 10:19:52 22 testimony and expert reports in support of 10:19:49 23 Litigation? 10:19:51 24 A. Yes. 10:19:55 25 Use Would you say that that's the primary, its 10:19:52 26 Litigation? 10:19:52 27 testimony and expert reports in support of 10:19:51 28 Litigation? 10:19:52 29 A. Yes. 10:19:55 20 Q. What percentage of its business would you 10:19:59 21 that wouldn't be testimony or report. 10:20:23 22 Q. Fair enough. What percentage of its business 10:20:26 23 Q. Has the CFA Institute issued any papers 10:17:42 24 A. It varies from year to year. It's always 10:20:33 25 cryptocurrency? 10:17:50	5	MR. SPEAR: Same objection. 10:16:18	5	forensic finance. 10:19:34
8 What is a CFA designation? 10:16:41 8 litigation? 10:19:51 9 A. CFA stands for Chartered Financial Analyst. 10:16:43 9 A. Yes. 10:19:51 10 It's the premier practitioner credential 10:16:48 10 Q. Would you say that that's the primary, its 10:19:52 11 among practicing financial professionals. 10:16:52 11 primary business? 10:19:55 12 It's awarded by the CFA Institute and 10:16:58 12 A. Yes. 10:19:56 13 that's what it is. It's awarded after the 10:17:03 13 Q. Is it its sole business? 10:19:56 14 candidate passes a series of three 10:17:08 14 A. No. 10:19:58 15 progressively more and more difficult exams, 10:17:13 15 Q. What percentage of its business would you 10:19:59 16 shows proficiency in mastering generally 10:17:15 16 say is providing expert testimony and 10:20:01 17 accepted principles in finance and has 10:17:19 17 reports? 10:20:03 18 sort of a requisite amount of time spent 10:17:22 18 A. Well, I guess I would need some clarification 10:20:04 19 working as a professional financial analyst. 10:17:25 19 on your question. Sometimes we are asked 10:20:18 20 Q. When did you obtain your CFA designation, 10:17:28 20 to prepare a plan of allocation in a case and 10:20:20 21 approximately? 10:17:33 21 that wouldn't be testimony or report. 10:20:23 22 A. It's in the exhibit on Page 10. 1998. 10:17:42 23 would you say is in support of litigation? 10:20:28 24 or publications on the subject of 10:17:48 24 A. It varies from year to year. It's always 10:20:33 25 cryptocurrency? 10:17:50 25 more than 90 percent. It has recently all 10:20:39	6	A. My answer is yes. 10:16:21	6	Q. Does this organization provide expert 10:19:35
9 A. CFA stands for Chartered Financial Analyst. 10:16:43 10 It's the premier practitioner credential 10:16:48 11 among practicing financial professionals. 10:16:52 11 among practicing financial professionals. 10:16:52 11 primary business? 10:19:55 12 It's awarded by the CFA Institute and 10:16:58 13 that's what it is. It's awarded after the 10:17:03 14 candidate passes a series of three 10:17:08 15 progressively more and more difficult exams, 10:17:13 16 say is providing expert testimony and 10:20:01 17 accepted principles in finance and has 10:17:19 18 sort of a requisite amount of time spent 10:17:22 19 working as a professional financial analyst. 10:17:25 10 Q. When did you obtain your CFA designation, 10:17:28 20 Q. When did you obtain your CFA designation, 10:17:34 21 that wouldn't be testimony or report. 10:20:23 22 A. It's in the exhibit on Page 10. 1998. 10:17:42 23 would you say that that's the primary, its 10:19:55 10 Q. Would you say that that's the primary, its 10:19:55 11 primary business? 10:19:55 11 primary business? 10:19:55 12 A. Yes. 10:19:56 13 Q. Is it its sole business? 10:19:56 14 A. No. 10:19:58 15 Q. What percentage of its business would you 10:19:59 16 say is providing expert testimony and 10:20:01 17 reports? 10:20:03 18 A. Well, I guess I would need some clarification 10:20:04 19 working as a professional financial analyst. 10:17:25 20 Q. When did you obtain your CFA designation, 10:17:28 21 that wouldn't be testimony or report. 10:20:23 22 A. It's in the exhibit on Page 10. 1998. 10:17:34 23 would you say is in support of litigation? 10:20:28 24 or publications on the subject of 10:17:48 25 more than 90 percent. It has recently all 10:20:39	7	Q. You mentioned that you had a CFA designation. 10:16:22	7	testimony and expert reports in support of 10:19:49
It's the premier practitioner credential 10:16:48 10 Q. Would you say that that's the primary, its 10:19:52 11 among practicing financial professionals. 10:16:52 11 primary business? 10:19:55 12 It's awarded by the CFA Institute and 10:16:58 12 A. Yes. 10:19:56 13 that's what it is. It's awarded after the 10:17:03 13 Q. Is it its sole business? 10:19:56 14 candidate passes a series of three 10:17:08 14 A. No. 10:19:58 15 progressively more and more difficult exams, 10:17:13 15 Q. What percentage of its business would you 10:19:59 16 shows proficiency in mastering generally 10:17:15 16 say is providing expert testimony and 10:20:01 17 accepted principles in finance and has 10:17:19 17 reports? 10:20:03 18 sort of a requisite amount of time spent 10:17:22 18 A. Well, I guess I would need some clarification 10:20:04 working as a professional financial analyst. 10:17:25 19 on your question. Sometimes we are asked 10:20:18 20 Q. When did you obtain your CFA designation, 10:17:28 21 that wouldn't be testimony or report. 10:20:23 22 A. It's in the exhibit on Page 10. 1998. 10:17:48 22 Q. Fair enough. What percentage of its business 10:20:28 24 or publications on the subject of 10:17:48 24 A. It varies from year to year. It's always 10:20:33 25 cryptocurrency? 10:17:50 25 more than 90 percent. It has recently all 10:20:39	8	What is a CFA designation? 10:16:41	8	litigation? 10:19:51
among practicing financial professionals. 10:16:52  It's awarded by the CFA Institute and 10:16:58  It's awarded by the CFA Institute and 10:17:03  It's awarded by the CFA Institute and 10:17:08  It's awarded by the CFA Institute issued any papers 10:17:48  It's in we are awarded after the 10:17:50  It's awarded by the CFA Institute issued any papers 10:17:48  It's in we are awarded after the 10:17:50  It's awarded by the CFA Institute issued any papers 10:17:50  It's awarded by the CFA Institute issued any papers 10:17:50  It's awarded by the CFA Institute issued any papers 10:17:50  It's awarded by the CFA Institute issued any papers 10:17:50  It's awarded by the CFA Institute issued any papers 10:17:50  It's awarded by the CFA Institute is awarded after the 10:17:08  It's in the exhibit on Page 10:17:48  It's in the exhibit on Page 10:17:48  It's in the warded by the CFA Institute issued any papers 10:17:48  It's in the warded after the 10:17:50  It's awarded by the CFA Institute is awarded after the 10:17:50  It's awarded by the CFA Institute is awarded after the 10:17:50  It's awarded by the CFA Institute is awarded after the 10:17:50  It's awarded by the CFA Institute is awarded after the 10:17:50  It's awarded by the CFA Institute is awarded after the 10:17:50  It's awarded by the CFA Institute is awarded after the 10:17:50  It's awarded by the CFA Institute is awarded after the 10:17:50  It's awarded by the CFA Institute is awarded after the 10:17:50  It's awarded by the CFA Institute is awarded after the 10:17:50  It's awarded by the CFA Institute is awarded after the 10:17:50  It's awarded by the CFA Institute is awarded after the 10:17:08  It's awarded by the CFA Institu	9	A. CFA stands for Chartered Financial Analyst. 10:16:43	9	A. Yes. 10:19:51
It's awarded by the CFA Institute and 10:16:58  12 A. Yes. 10:19:56  13 that's what it is. It's awarded after the 10:17:03  14 candidate passes a series of three 10:17:08  15 progressively more and more difficult exams, 10:17:13  16 shows proficiency in mastering generally 10:17:15  17 accepted principles in finance and has 10:17:19  18 sort of a requisite amount of time spent 10:17:22  19 working as a professional financial analyst. 10:17:25  10 Q. When did you obtain your CFA designation, 10:17:28  20 Q. When did you obtain your CFA designation, 10:17:33  21 that wouldn't be testimony or report. 10:20:23  22 A. It's in the exhibit on Page 10. 1998. 10:17:34  23 would you say is in support of litigation? 10:20:28  24 or publications on the subject of 10:17:48  25 cryptocurrency? 10:17:50  26 A. Yes. 10:19:56  18 Q. Yes. 10:19:56  19 Q. What percentage of its business would you 10:19:59  16 say is providing expert testimony and 10:20:01  17 reports? 10:20:03  18 A. Well, I guess I would need some clarification 10:20:04  19 on your question. Sometimes we are asked 10:20:18  20 to prepare a plan of allocation in a case and 10:20:20  21 approximately? 10:17:34  22 Q. Fair enough. What percentage of its business 10:20:26  23 would you say is in support of litigation? 10:20:28  24 A. It varies from year to year. It's always 10:20:33  25 cryptocurrency? 10:17:50  26 more than 90 percent. It has recently all 10:20:39	10	It's the premier practitioner credential 10:16:48	10	Q. Would you say that that's the primary, its 10:19:52
that's what it is. It's awarded after the 10:17:03	11	among practicing financial professionals. 10:16:52	11	•
candidate passes a series of three 10:17:08 14 A. No. 10:19:58  15 progressively more and more difficult exams, 10:17:13 15 Q. What percentage of its business would you 10:19:59  16 shows proficiency in mastering generally 10:17:15 16 say is providing expert testimony and 10:20:01  17 accepted principles in finance and has 10:17:19 17 reports? 10:20:03  18 sort of a requisite amount of time spent 10:17:22 18 A. Well, I guess I would need some clarification 10:20:04  19 working as a professional financial analyst. 10:17:25 19 on your question. Sometimes we are asked 10:20:18  20 Q. When did you obtain your CFA designation, 10:17:28 20 to prepare a plan of allocation in a case and 10:20:20  21 approximately? 10:17:33 21 that wouldn't be testimony or report. 10:20:23  22 A. It's in the exhibit on Page 10. 1998. 10:17:42 23 would you say is in support of litigation? 10:20:28  24 or publications on the subject of 10:17:48 24 A. It varies from year to year. It's always 10:20:33  25 cryptocurrency? 10:17:50 25 more than 90 percent. It has recently all 10:20:39	12	It's awarded by the CFA Institute and 10:16:58	12	A. Yes. 10:19:56
progressively more and more difficult exams, 10:17:13  15 Q. What percentage of its business would you 10:19:59  16 shows proficiency in mastering generally 10:17:15  16 say is providing expert testimony and 10:20:01  17 reports? 10:20:03  18 sort of a requisite amount of time spent 10:17:22  18 A. Well, I guess I would need some clarification 10:20:04  19 working as a professional financial analyst. 10:17:25  20 Q. When did you obtain your CFA designation, 10:17:28  21 approximately? 10:17:33  22 A. It's in the exhibit on Page 10. 1998. 10:17:42  23 Q. Has the CFA Institute issued any papers 10:17:42  24 or publications on the subject of 10:17:48  25 cryptocurrency? 10:17:50  16 say is providing expert testimony and 10:20:01  17 reports? 10:20:03  18 A. Well, I guess I would need some clarification 10:20:04  19 on your question. Sometimes we are asked 10:20:18  20 to prepare a plan of allocation in a case and 10:20:20  21 approximately? 10:17:34  22 Q. Fair enough. What percentage of its business 10:20:26  23 Q. Has the CFA Institute issued any papers 10:17:42  24 A. It varies from year to year. It's always 10:20:33  25 cryptocurrency? 10:17:50  26 Man percentage of its business would you 10:19:59  27 A. It varies from year to year. It's always 10:20:33  28 more than 90 percent. It has recently all 10:20:39	13	that's what it is. It's awarded after the 10:17:03	13	Q. Is it its sole business? 10:19:56
shows proficiency in mastering generally 10:17:15 16 say is providing expert testimony and 10:20:01 17 accepted principles in finance and has 10:17:19 17 reports? 10:20:03 18 sort of a requisite amount of time spent 10:17:22 18 A. Well, I guess I would need some clarification 10:20:04 19 working as a professional financial analyst. 10:17:25 19 on your question. Sometimes we are asked 10:20:18 20 Q. When did you obtain your CFA designation, 10:17:28 20 to prepare a plan of allocation in a case and 10:20:20 21 approximately? 10:17:33 21 that wouldn't be testimony or report. 10:20:23 22 A. It's in the exhibit on Page 10. 1998. 10:17:34 22 Q. Fair enough. What percentage of its business 10:20:26 23 Q. Has the CFA Institute issued any papers 10:17:42 23 would you say is in support of litigation? 10:20:28 24 A. It varies from year to year. It's always 10:20:33 25 cryptocurrency? 10:17:50 25 more than 90 percent. It has recently all 10:20:39	14	candidate passes a series of three 10:17:08	14	A. No. 10:19:58
accepted principles in finance and has 10:17:19 17 reports? 10:20:03  18 sort of a requisite amount of time spent 10:17:22 18 A. Well, I guess I would need some clarification 10:20:04  19 working as a professional financial analyst. 10:17:25 19 on your question. Sometimes we are asked 10:20:18  20 Q. When did you obtain your CFA designation, 10:17:28 20 to prepare a plan of allocation in a case and 10:20:20  21 approximately? 10:17:33 21 that wouldn't be testimony or report. 10:20:23  22 A. It's in the exhibit on Page 10. 1998. 10:17:34 22 Q. Fair enough. What percentage of its business 10:20:26  23 Q. Has the CFA Institute issued any papers 10:17:42 23 would you say is in support of litigation? 10:20:28  24 A. It varies from year to year. It's always 10:20:33  25 cryptocurrency? 10:17:50 25 more than 90 percent. It has recently all 10:20:39	15	progressively more and more difficult exams, 10:17:13	15	Q. What percentage of its business would you 10:19:59
sort of a requisite amount of time spent 10:17:22 18 A. Well, I guess I would need some clarification 10:20:04 19 working as a professional financial analyst. 10:17:25 19 on your question. Sometimes we are asked 10:20:18 20 Q. When did you obtain your CFA designation, 10:17:28 20 to prepare a plan of allocation in a case and 10:20:20 21 approximately? 10:17:33 21 that wouldn't be testimony or report. 10:20:23 22 A. It's in the exhibit on Page 10. 1998. 10:17:34 22 Q. Fair enough. What percentage of its business 10:20:26 23 Q. Has the CFA Institute issued any papers 10:17:42 23 would you say is in support of litigation? 10:20:28 24 A. It varies from year to year. It's always 10:20:33 25 cryptocurrency? 10:17:50 25 more than 90 percent. It has recently all 10:20:39	16	shows proficiency in mastering generally 10:17:15	16	say is providing expert testimony and 10:20:01
working as a professional financial analyst. 10:17:25  Q. When did you obtain your CFA designation, 10:17:28  20 to prepare a plan of allocation in a case and 10:20:20  21 approximately? 10:17:33  22 A. It's in the exhibit on Page 10. 1998. 10:17:34  23 Q. Has the CFA Institute issued any papers 10:17:42  24 or publications on the subject of 10:17:48  25 cryptocurrency? 10:17:50  19 on your question. Sometimes we are asked 10:20:18  20 to prepare a plan of allocation in a case and 10:20:20  21 that wouldn't be testimony or report. 10:20:23  22 Q. Fair enough. What percentage of its business 10:20:26  23 would you say is in support of litigation? 10:20:28  24 A. It varies from year to year. It's always 10:20:33  25 cryptocurrency? 10:17:50  26 more than 90 percent. It has recently all 10:20:39	17	accepted principles in finance and has 10:17:19	17	reports? 10:20:03
20 Q. When did you obtain your CFA designation, 10:17:28 21 approximately? 10:17:33 22 A. It's in the exhibit on Page 10. 1998. 10:17:34 23 Q. Has the CFA Institute issued any papers 10:17:42 24 or publications on the subject of 10:17:48 25 cryptocurrency? 10:17:50 20 to prepare a plan of allocation in a case and 10:20:20 21 that wouldn't be testimony or report. 10:20:23 22 Q. Fair enough. What percentage of its business 10:20:26 23 would you say is in support of litigation? 10:20:28 24 A. It varies from year to year. It's always 10:20:33 25 more than 90 percent. It has recently all 10:20:39	18	sort of a requisite amount of time spent 10:17:22	18	A. Well, I guess I would need some clarification 10:20:04
21 approximately? 10:17:33 21 that wouldn't be testimony or report. 10:20:23 22 A. It's in the exhibit on Page 10. 1998. 10:17:34 22 Q. Fair enough. What percentage of its business 10:20:26 23 Q. Has the CFA Institute issued any papers 10:17:42 23 would you say is in support of litigation? 10:20:28 24 or publications on the subject of 10:17:48 24 A. It varies from year to year. It's always 10:20:33 25 cryptocurrency? 10:17:50 25 more than 90 percent. It has recently all 10:20:39	19	working as a professional financial analyst. 10:17:25	19	on your question. Sometimes we are asked 10:20:18
22 A. It's in the exhibit on Page 10. 1998. 10:17:34 22 Q. Fair enough. What percentage of its business 10:20:26 23 Q. Has the CFA Institute issued any papers 10:17:42 24 or publications on the subject of 10:17:48 25 cryptocurrency? 10:17:50 26 Q. Fair enough. What percentage of its business 10:20:26 27 would you say is in support of litigation? 10:20:28 28 A. It varies from year to year. It's always 10:20:33 29 percent. It has recently all 10:20:39	20	Q. When did you obtain your CFA designation, 10:17:28	20	to prepare a plan of allocation in a case and 10:20:20
23 Q. Has the CFA Institute issued any papers 10:17:42 23 would you say is in support of litigation? 10:20:28 24 or publications on the subject of 10:17:48 24 A. It varies from year to year. It's always 10:20:33 25 cryptocurrency? 10:17:50 25 more than 90 percent. It has recently all 10:20:39	21	approximately? 10:17:33	21	that wouldn't be testimony or report. 10:20:23
24 or publications on the subject of 10:17:48 24 A. It varies from year to year. It's always 10:20:33 25 cryptocurrency? 10:17:50 25 more than 90 percent. It has recently all 10:20:39	22	A. It's in the exhibit on Page 10. 1998. 10:17:34	22	Q. Fair enough. What percentage of its business 10:20:26
25 cryptocurrency? 10:17:50 25 more than 90 percent. It has recently all 10:20:39	23	Q. Has the CFA Institute issued any papers 10:17:42	23	would you say is in support of litigation? 10:20:28
	24	or publications on the subject of 10:17:48	24	A. It varies from year to year. It's always 10:20:33
Page 31 Page 33	25	7.2	25	more than 90 percent. It has recently all 10:20:39
		Page 31		Page 33

1 been much more, somewhere between 90 and 10:20:41	1 regression analysis, to determine whether 10:23:07
2 99 percent. 10:20:44	2 information has affected the valuation of 10:23:11
3 Q. And has it done any work at any time you 10:20:45	3 the security. This article addresses the 10:23:11
4 said it performs work on a contract basis, 10:20:51	4 problem with running an event study when 10:23:14
5 correct? 10:20:54	5 the period of interest has a change in 10:23:17
6 A. Yes. 10:20:54	6 volatility, and the example given in the 10:23:19
7 Q. Has it performed any work for any 10:20:54	7 paper is change of volatility caused by the 10:23:22
8 cryptocurrency exchange? 10:20:57	8 COVID pandemic. And it solves the problem 10:23:25
9 A. No. 10:20:59	9 and explains how one would nonetheless be 10:23:25
10 Q. Has it performed any work for any entity 10:20:59	10 able to determine what were the events or 10:23:31
11 in the crypto business? 10:21:08	11 announcements that impacted the security 10:23:35
12 A. No. 10:21:11	12 price and one could apply this methodology 10:23:38
13 Q. Then moving down to on this page, Papers 10:21:13	13 to a stock, a bond or digital assets. 10:23:41
14 and Publications, can you describe the list 10:21:19	14 Q. Does the paper explore in any way anything 10:23:45
15 here that follows under the heading Pages 10:21:26	15 that might be unique to the cryptocurrency 10:23:52
and Publications? What is this list? 10:21:29	16 space if one were trying to perform an event 10:23:54
17 A. These are my publications. On Page 10, 10:21:32	17 study on cryptocurrency? 10:23:58
18 these are publications since September 2013. 10:21:36	18 A. No, it doesn't focus on the specific 10:23:59
19 Q. And the list continues on the next page? 10:21:39	19 idiosyncracies of cryptocurrency or digital 10:24:04
20 A. Right. 10:21:43	20 assets. 10:24:08
21 Q. And how far back does it go? To the 10:21:43	21 Q. Let's move on to the second paper there. 10:24:08
22 beginning of time? 10:21:46	22 It's entitled Stock Price Reactivity to 10:24:10
23 A. I think so. 1987, yes. 10:21:47	23 Earnings Announcements: The Role of the 10:24:14
24 Q. Okay. Focusing on the more recent ones, am 10:21:51	24 Cammer/Krogman Factors. Does that have any 10:24:19
25 I correct that there are three papers and 10:21:58	25 application to crypto space? 10:24:33
Page 3	Page 36
1 publications listed here since 2014? 10:22:01	1 MR. SPEAR: Objection, scope. 10:24:35
1 publications listed here since 2014? 10:22:01 2 A. Yes. 10:22:07	1 MR. SPEAR: Objection, scope. 10:24:35 2 A. It certainly could. The paper runs tests 10:24:36
1	
2 A. Yes. 10:22:07	2 A. It certainly could. The paper runs tests 10:24:36
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:17
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36 12 MR. SPEAR: Objection to form and 10:22:37	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:51 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:21 12 change in response to a public announcement? 10:25:21
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36 12 MR. SPEAR: Objection to form and 10:22:37 13 scope. 10:22:38	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:17 12 change in response to a public announcement? 10:25:21 13 A. Correct. 10:25:24
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36 12 MR. SPEAR: Objection to form and 10:22:37 13 scope. 10:22:38 14 Q. How would they let's take the first one. 10:22:38	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:17 12 change in response to a public announcement? 10:25:21 13 A. Correct. 10:25:24 14 Q. When you say it provides general tools, that 10:25:25
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36 12 MR. SPEAR: Objection to form and 10:22:37 13 scope. 10:22:38 14 Q. How would they let's take the first one. 10:22:38 15 So the first one is called Securities 10:22:42	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:17 12 change in response to a public announcement? 10:25:21 13 A. Correct. 10:25:24 14 Q. When you say it provides general tools, that 10:25:25 15 might help and analyze that? 10:25:32
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36 12 MR. SPEAR: Objection to form and 10:22:37 13 scope. 10:22:38 14 Q. How would they let's take the first one. 10:22:38 15 So the first one is called Securities 10:22:42 16 Litigation Event Studies in the COVID 10:22:42	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:51 5 to the propensity or frequency of the 10:24:56 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:17 12 change in response to a public announcement? 10:25:21 13 A. Correct. 10:25:24 14 Q. When you say it provides general tools, that 10:25:35 15 might help and analyze that? 10:25:36
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36 12 MR. SPEAR: Objection to form and 10:22:37 13 scope. 10:22:38 14 Q. How would they let's take the first one. 10:22:38 15 So the first one is called Securities 10:22:42 16 Litigation Event Studies in the COVID 10:22:42 17 Volatility Regime. Do you see that? 10:22:47	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:17 12 change in response to a public announcement? 10:25:21 13 A. Correct. 10:25:24 14 Q. When you say it provides general tools, that 10:25:25 15 might help and analyze that? 10:25:36 17 commonly used and assesses whether they are 10:25:38
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36 12 MR. SPEAR: Objection to form and 10:22:37 13 scope. 10:22:38 14 Q. How would they let's take the first one. 10:22:38 15 So the first one is called Securities 10:22:42 16 Litigation Event Studies in the COVID 10:22:42 17 Volatility Regime. Do you see that? 10:22:47 18 A. Yes. 10:22:48	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:17 12 change in response to a public announcement? 10:25:21 13 A. Correct. 10:25:24 14 Q. When you say it provides general tools, that 10:25:25 15 might help and analyze that? 10:25:32 16 A. Well, it takes a list of tools that are 10:25:36 17 commonly used and assesses whether they are 10:25:38 18 informative. 10:25:42
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36 12 MR. SPEAR: Objection to form and 10:22:37 13 scope. 10:22:38 14 Q. How would they let's take the first one. 10:22:38 15 So the first one is called Securities 10:22:42 16 Litigation Event Studies in the COVID 10:22:42 17 Volatility Regime. Do you see that? 10:22:47 18 A. Yes. 10:22:48 19 Q. Does that have an application to 10:22:48	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:17 12 change in response to a public announcement? 10:25:21 13 A. Correct. 10:25:24 14 Q. When you say it provides general tools, that 10:25:25 15 might help and analyze that? 10:25:32 16 A. Well, it takes a list of tools that are 10:25:36 17 commonly used and assesses whether they are 10:25:38 18 informative. 10:25:42 19 Q. I see. And, again, there's no, nothing in 10:25:44
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36 12 MR. SPEAR: Objection to form and 10:22:37 13 scope. 10:22:38 14 Q. How would they let's take the first one. 10:22:38 15 So the first one is called Securities 10:22:42 16 Litigation Event Studies in the COVID 10:22:42 17 Volatility Regime. Do you see that? 10:22:47 18 A. Yes. 10:22:48 19 Q. Does that have an application to 10:22:51	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:17 12 change in response to a public announcement? 10:25:21 13 A. Correct. 10:25:24 14 Q. When you say it provides general tools, that 10:25:25 15 might help and analyze that? 10:25:32 16 A. Well, it takes a list of tools that are 10:25:36 17 commonly used and assesses whether they are 10:25:38 18 informative. 10:25:42 19 Q. I see. And, again, there's no, nothing in 10:25:44 20 that article that is applying those tools to 10:25:48
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36 12 MR. SPEAR: Objection to form and 10:22:37 13 scope. 10:22:38 14 Q. How would they let's take the first one. 10:22:38 15 So the first one is called Securities 10:22:42 16 Litigation Event Studies in the COVID 10:22:42 17 Volatility Regime. Do you see that? 10:22:42 18 A. Yes. 10:22:48 19 Q. Does that have an application to 10:22:51 20 Cryptocurrency? 10:22:51 21 A. It could. 10:22:52	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:51 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:17 12 change in response to a public announcement? 10:25:21 13 A. Correct. 10:25:24 14 Q. When you say it provides general tools, that 10:25:25 15 might help and analyze that? 10:25:32 16 A. Well, it takes a list of tools that are 10:25:36 17 commonly used and assesses whether they are 10:25:38 18 informative. 10:25:42 19 Q. I see. And, again, there's no, nothing in 10:25:44 20 that article that is applying those tools to 10:25:54
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36 12 MR. SPEAR: Objection to form and 10:22:37 13 scope. 10:22:38 14 Q. How would they let's take the first one. 10:22:38 15 So the first one is called Securities 10:22:42 16 Litigation Event Studies in the COVID 10:22:42 17 Volatility Regime. Do you see that? 10:22:47 18 A. Yes. 10:22:48 19 Q. Does that have an application to 10:22:48 20 cryptocurrency? 10:22:51 21 A. It could. 10:22:52 22 Q. Can you explain that? 10:22:53	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:17 12 change in response to a public announcement? 10:25:21 13 A. Correct. 10:25:24 14 Q. When you say it provides general tools, that 10:25:25 15 might help and analyze that? 10:25:32 16 A. Well, it takes a list of tools that are 10:25:36 17 commonly used and assesses whether they are 10:25:38 18 informative. 10:25:42 19 Q. I see. And, again, there's no, nothing in 10:25:44 20 that article that is applying those tools to 10:25:48 21 movement in the price of a cryptocurrency, 10:25:54 22 correct? 10:25:56
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36 12 MR. SPEAR: Objection to form and 10:22:37 13 scope. 10:22:38 14 Q. How would they let's take the first one. 10:22:38 15 So the first one is called Securities 10:22:42 16 Litigation Event Studies in the COVID 10:22:42 17 Volatility Regime. Do you see that? 10:22:47 18 A. Yes. 10:22:48 19 Q. Does that have an application to 10:22:48 20 cryptocurrency? 10:22:51 21 A. It could. 10:22:52 22 Q. Can you explain that? 10:22:53 23 MR. SPEAR: Objection, scope. 10:22:55	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:17 12 change in response to a public announcement? 10:25:21 13 A. Correct. 10:25:24 14 Q. When you say it provides general tools, that 10:25:25 15 might help and analyze that? 10:25:32 16 A. Well, it takes a list of tools that are 10:25:36 17 commonly used and assesses whether they are 10:25:38 18 informative. 10:25:42 19 Q. I see. And, again, there's no, nothing in 10:25:44 20 that article that is applying those tools to 10:25:48 21 movement in the price of a cryptocurrency, 10:25:54 22 correct? 10:25:56 23 A. Specifically, the answer would be no. 10:25:58
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36 12 MR. SPEAR: Objection to form and 10:22:37 13 scope. 10:22:38 14 Q. How would they let's take the first one. 10:22:38 15 So the first one is called Securities 10:22:42 16 Litigation Event Studies in the COVID 10:22:42 17 Volatility Regime. Do you see that? 10:22:47 18 A. Yes. 10:22:48 19 Q. Does that have an application to 10:22:48 20 cryptocurrency? 10:22:51 21 A. It could. 10:22:52 22 Q. Can you explain that? 10:22:53 23 MR. SPEAR: Objection, scope. 10:22:56	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:17 12 change in response to a public announcement? 10:25:21 13 A. Correct. 10:25:24 14 Q. When you say it provides general tools, that 10:25:32 15 might help and analyze that? 10:25:32 16 A. Well, it takes a list of tools that are 10:25:36 17 commonly used and assesses whether they are 10:25:38 18 informative. 10:25:42 19 Q. I see. And, again, there's no, nothing in 10:25:44 20 that article that is applying those tools to 10:25:48 21 movement in the price of a cryptocurrency, 10:25:54 22 correct? 10:25:56 23 A. Specifically, the answer would be no. 10:25:58 24 Q. And we'll just do one more and then move on. 10:26:00
2 A. Yes. 10:22:07 3 Q. I've already asked whether your papers and 10:22:07 4 publications mention cryptocurrency, you 10:22:15 5 said no, but you testified that they apply 10:22:19 6 generally to finance, and I'm wondering if 10:22:23 7 you could explain whether any of these three 10:22:26 8 publications that you've authored since 2014, 10:22:28 9 how many of them would apply to the crypto 10:22:33 10 space? 10:22:35 11 A. What do you mean by "apply"? 10:22:36 12 MR. SPEAR: Objection to form and 10:22:37 13 scope. 10:22:38 14 Q. How would they let's take the first one. 10:22:38 15 So the first one is called Securities 10:22:42 16 Litigation Event Studies in the COVID 10:22:42 17 Volatility Regime. Do you see that? 10:22:47 18 A. Yes. 10:22:48 19 Q. Does that have an application to 10:22:48 20 cryptocurrency? 10:22:51 21 A. It could. 10:22:52 22 Q. Can you explain that? 10:22:53 23 MR. SPEAR: Objection, scope. 10:22:55	2 A. It certainly could. The paper runs tests 10:24:36 3 to see if characteristics and indicators 10:24:41 4 describing companies or stocks are related 10:24:47 5 to the propensity or frequency of the 10:24:51 6 security moving significantly on certain 10:24:56 7 announcement dates. It's more geared towards 10:25:01 8 equities, but some of the concepts and 10:25:05 9 principles and tools described would apply 10:25:08 10 to any traded asset. 10:25:11 11 Q. The subject is how an asset price would 10:25:17 12 change in response to a public announcement? 10:25:21 13 A. Correct. 10:25:24 14 Q. When you say it provides general tools, that 10:25:25 15 might help and analyze that? 10:25:32 16 A. Well, it takes a list of tools that are 10:25:36 17 commonly used and assesses whether they are 10:25:38 18 informative. 10:25:42 19 Q. I see. And, again, there's no, nothing in 10:25:44 20 that article that is applying those tools to 10:25:48 21 movement in the price of a cryptocurrency, 10:25:54 22 correct? 10:25:56 23 A. Specifically, the answer would be no. 10:25:58 24 Q. And we'll just do one more and then move on. 10:26:00 25 The next article is called What a Solar 10:26:05

1	Eclipse has to do with Market Efficiency? 10:26:07	1	Q. Do you own or control any wallets on any 10:29:20
2	A. I just want to correct that. The way I 10:26:10	2	blockchain? 10:29:26
3	wanted to phrase that last answer was if you 10:26:13	3	A. No. 10:29:26
4	mean specifically, then the answer is no. 10:26:14	4	Q. How about a cold wallet, do you own or 10:29:27
5	Q. Okay. Again, how would your, the writing 10:26:17	5	control any cold wallet? 10:29:38
6	there, how might that apply to 10:26:24	6	A. No. 10:29:40
7	cryptocurrency? 10:26:32	7	Q. All right. Would you say that you have 10:29:40
8	A. It's the same thing. It doesn't specifically 10:26:32	8	any scientific knowledge regarding 10:29:56
9	address cryptocurrency. 10:26:33	9	cryptocurrency? 10:29:58
10	MR. SPEAR: I'll object to scope. 10:26:33	10	MR. SPEAR: Objection, form. 10:30:00
11	Go ahead. 10:26:35	11	A. It depends what you mean by "scientific 10:30:01
12	A. The article about the solar eclipse and 10:26:36	12	knowledge." 10:30:04
13	market efficiency does not mention digital 10:26:38	13	Q. I'm trying to understand the basis for 10:30:04
			· -
14	Tr J Tr	14	reaching an expert opinion in a case about 10:30:43
15	to digital assets, but it talks about, it 10:26:43	15	calculating profit and loss in a trade in 10:30:46
16	addresses tests of whether or not a market 10:26:47	16	crypto. 10:30:50
17	is efficient, meaning that the trading price 10:26:50	17	MR. SPEAR: Objection to form. 10:30:51
18	is absorbed and reflect information, and 10:26:54	18	Q. Do you have experience calculating damages 10:30:53
19	those concepts do apply to digital assets 10:26:56	19	in securities cases where the assets are 10:31:00
20	just like they apply to any other financial 10:26:59	20	stocks or bonds? 10:31:04
21	asset. 10:27:02	21	A. Yes. 10:31:05
22	Q. Okay. And, again, same question as before, 10:27:03	22	Q. Do you have a lot of experience in that or 10:31:05
23	these are general tools that one might apply 10:27:19	23	a little experience in that? 10:31:09
24	to the cryptocurrency space, but this 10:27:21	24	A. A great deal. 10:31:10
25	publication does not undertake to apply those 10:27:23	25	Q. You have a lot of experience in that. Is it 10:31:11
	Page 38		Page 40
1	tools to a specific cryptocurrency? 10:27:26	1	fair to say that you don't have experience, 10:31:14
	A. That is correct. 10:27:28	2	apart from this case, calculating profit or 10:31:16
3	MR. SPEAR: I'll just note for 10:27:33	3	loss on trading in any cryptocurrency? 10:31:19
4	the record, my understanding is that these 10:27:35	4	MR. SPEAR: Objection to form. 10:31:23
5	four papers and the next three from 2010 10:27:36	5	A. It depends how one's interpreting your 10:31:24
6	were produced in that batch we gave you guys 10:27:40	6	question. I certainly have a great deal 10:31:31
7		7	of experience and expertise and training 10:31:39
	•		
8	MR. MICHAELSON: Thank you. 10:27:48	8	
9	Q. Does Babson offer a course to students 10:27:53		
10	focused on cryptocurrency? 10:28:07	10	assets are financial assets. Therefore, I 10:31:52
11	A. Not presently. 10:28:11	11	do have a great deal of experience and 10:31:55
12	Q. So aside from your work as a professor and 10:28:23	12	training and education and knowledge that 10:31:57
13	your work at Crowninshield, have you done any 10:28:35	13	gives me confidence and the ability to value 10:32:04
14	paid work, a job relating to cryptocurrency? 10:28:40	14	profits and losses and damages in digital 10:32:10
15	A. No. 10:28:46	15	assets. 10:32:13
16	Q. And focusing on your expert work, have you 10:28:46	16	The knowledge I have is that the 10:32:15
17	been an expert witness in another case 10:28:52	17	similarities between digital assets and more 10:32:18
18	focused on cryptocurrency? 10:28:55	18	traditional assets are such that the 10:32:21
19	A. No. 10:28:57	19	expertise I have already demonstrated applies 10:32:25
20	Q. Do you own personally you mentioned that 10:28:57	20	here in this case with digital assets. 10:32:28
21	you had a Coinbase account, you bought and 10:29:09	21	Q. So it's your testimony that you can take 10:32:33
		22	these general tools that you have used to 10:32:37
22	sold Ethereum on one occasion. You never 10:29:13		
22 23	had any accounts on other crypto exchanges, 10:29:16	23	value assets in other spaces like stocks or 10:32:39
		23 24	value assets in other spaces like stocks or 10:32:39 bonds and apply those tools to digital 10:32:44
23	had any accounts on other crypto exchanges, 10:29:16		-
23 24	had any accounts on other crypto exchanges, 10:29:16 correct? 10:29:19	24	bonds and apply those tools to digital 10:32:44

1 A. Yes. I believe that given what I know 10:32:50	1 10:35 a.m. We're off the record. 10:35:30
2 about valuing assets, financial assets, 10:32:54	2 (Break taken) 10:35:34
3 traditional or digital and computing 10:32:58	3 VIDEOGRAPHER: We are back on the 10:50:54
4 damages for financial assets, coupled with 10:33:05	4 record. The time is 10:51 a.m. 10:51:12
5 a little bit more knowledge that I have 10:33:11	5 BY MR. MICHAELSON: 10:51:16
6 obtained about the idiosyncracies of digital 10:33:13	6 Q. I wanted to circle back to the expert reports 10:51:16
7 assets, allows me to calculate and gives 10:33:22	7 in the SEC action that you reviewed. You 10:51:28
8 me the specific expertise that one would 10:33:22	8 mentioned having opened and at least skimmed 10:51:35
9 need to calculate profits, losses and damages 10:33:24	9 the Fischel report. Do you recall that? 10:51:38
10 for digital assets. 10:33:27	10 A. Right. 10:51:39
11 Q. Do you agree that it's important to take 10:33:30	11 Q. Why did you look at the Fischel report? 10:51:40
12 into account the idiosyncracies of digital 10:33:33	12 A. I was just curious who the players were in 10:51:46
13 assets in calculating profit or loss on 10:33:36	13 that case and who was on what side. 10:51:49
14 trading digital assets? 10:33:39	14 Q. So when you opened the Fischel report, what 10:51:52
15 A. Yes, I agree. And I just want to say for 10:33:40	15 were you looking for? 10:51:55
16 the record that I have done that in this 10:33:45	16 A. Some indication as to whether he was on the 10:51:58
17 report and in the example that was provided 10:33:46	17 defense or the plaintiff's side or the SEC 10:51:59
18 in interrogatory response. 10:33:53	18 side. 10:52:04
19 Q. So you mentioned having a little bit of 10:33:54	19 Q. Were you interested as well in what his 10:52:04
20 experience regarding the idiosyncracies? 10:33:56	20 opinion was, the subject matter of his 10:52:14
21 What is 10:33:56	21 opinion? 10:52:17
22 A. I didn't say a little bit of experience. I 10:34:01	22 A. I was interested. I actually, as I sit 10:52:19
23 said the background in valuation and damage 10:34:05	23 here now, I don't recall what it was, but 10:52:22
24 computation coupled with a little bit more 10:34:08	24 I was interested. 10:52:24
25 knowledge about those idiosyncracies is what 10:34:11	25 Q. So did you read the introduction? 10:52:27
Page 42	Page 44
1 one would need to expertly and effectively 10:34:16	1 A. Probably. 10:52:30
2 undertake this task. 10:34:19	2 Q. Did you read the full report? 10:52:31
3 Q. And it's your testimony that you have 10:34:21	3 A. I don't think so. 10:52:34
4 that little bit more knowledge of the 10:34:23	4 Q. Did you print it out? 10:52:34
5 idiosyncracies of digital assets? 10:34:26	5 A. No. 10:52:37
6 A. I think I have more than the minimum little 10:34:30	6 Q. You just reviewed it online? 10:52:37
7 bit necessary, but I have definitely at 10:34:33	7 A. Correct. 10:52:40
8 least that minimum necessary. 10:34:36	8 Q. Did you save it or download it? 10:52:40
9 Q. Okay. I'm trying to understand where you 10:34:36	9 A. I don't recall. I don't think so. 10:52:43
got that from because it's not really in 10:34:38	10 Q. Without getting into substance, did you 10:52:44
11 your teachings or your publications. So 10:34:42	11 A. Wait, wait. It is downloaded. 10:52:50
where did you get that knowledge of the 10:34:44	12 Q. It is downloaded? 10:52:52
13 idiosyncracies of digital assets? 10:34:46	13 A. It is downloaded, yeah. 10:52:52
14 MR. SPEAR: Objection to form. 10:34:50	14 Q. Without getting into the substance of 10:52:53
15 A. I think we did cover that this morning. I 10:34:51	15 communications with your staff, did you 10:52:55
16 keep abreast of the financial literature 10:34:53	16 discuss it with your staff? 10:52:58
17 and this is a topic that appears in academic 10:34:57	17 A. Just the names and sides. 10:53:01
18 articles and even unpublished papers and 10:35:06	
	18 Q. Like here are the names of experts in the 10:53:05
19 seminars that I participated in and read. 10:35:11	19 SEC action and which side they're on? 10:53:10
19 seminars that I participated in and read. 10:35:11 20 MR. SPEAR: We've been going about 10:35:22	19 SEC action and which side they're on? 10:53:10 20 A. Exactly. 10:53:12
seminars that I participated in and read. 10:35:11  MR. SPEAR: We've been going about 10:35:22  an hour, so if you want to take a little 10:35:24	19 SEC action and which side they're on? 10:53:10 20 A. Exactly. 10:53:12 21 Q. But any discussion of the substance of their 10:53:13
seminars that I participated in and read. 10:35:11  MR. SPEAR: We've been going about 10:35:22  an hour, so if you want to take a little 10:35:24  break, let me know. 10:35:26	19 SEC action and which side they're on? 10:53:10 20 A. Exactly. 10:53:12 21 Q. But any discussion of the substance of their 10:53:13 22 opinions? 10:53:16
seminars that I participated in and read. 10:35:11  MR. SPEAR: We've been going about 10:35:22  an hour, so if you want to take a little 10:35:24  break, let me know. 10:35:26  MR. MICHAELSON: We can take a 10:35:28	19       SEC action and which side they're on?       10:53:10         20       A. Exactly.       10:53:12         21       Q. But any discussion of the substance of their 10:53:13         22       opinions?       10:53:16         23       A. No. I think we had a discussion as to 10:53:17
seminars that I participated in and read. 10:35:11  MR. SPEAR: We've been going about 10:35:22  an hour, so if you want to take a little 10:35:24  break, let me know. 10:35:26  MR. MICHAELSON: We can take a 10:35:28  break. 10:35:29	19 SEC action and which side they're on? 10:53:10 20 A. Exactly. 10:53:12 21 Q. But any discussion of the substance of their 10:53:13 22 opinions? 10:53:16 23 A. No. I think we had a discussion as to 10:53:17 24 whether it would be helpful for this 10:53:22
seminars that I participated in and read. 10:35:11  MR. SPEAR: We've been going about 10:35:22  an hour, so if you want to take a little 10:35:24  break, let me know. 10:35:26  MR. MICHAELSON: We can take a 10:35:28	19       SEC action and which side they're on?       10:53:10         20       A. Exactly.       10:53:12         21       Q. But any discussion of the substance of their 10:53:13         22       opinions?       10:53:16         23       A. No. I think we had a discussion as to 10:53:17

1		
1	1 would not be. 10:53:26	
4 A. Reading, sundying, understanding the SFC   10:53:31   5 reports.   10:53:35   5 A. Yes.   10:56:32   10:56:32   10:56:33   7 dishit read the reports for purposes of   10:53:42   8 forming your opinion in this case?   10:53:47   8 forming your opinion in this case?   10:53:47   8 forming your opinion in this case?   10:53:49   9 A. Thar's correct.   10:53:49   10:56:34   9 but my understanding is that it was invented   10:56:36   9 but my understanding is that it was invented   10:56:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36   10:50:36	2 Q. As to whether what would be helpful for 10:53:26	2 of XRP tokens. 10:56:25
5	3 this engagement? 10:53:29	3 Q. Do you have an understanding as to how XRP 10:56:28
6 Q. Okay. So it's your testimony that you   10:53:35   7   didn't read the reports for purposes of   10:53:42   7   A. Well, I came to that understanding?   10:56:36   10:53:47   8   A. Thar's correct.   10:53:49   10   Did the Fischel report in any way influence   10:53:49   10   Did the Fischel report in any way influence   10:54:00   11   10:54:03   11   10:54:03   13   Did the Farrell report influence in any way   10:54:04   13   Did the Farrell report influence in any way   10:54:04   13   Did the Farrell report influence in any way   10:54:04   13   Did the Farrell report influence in any way   10:54:07   14   the opinion you expressed in this case?   10:54:07   15   A. No.   10:54:10   15   A. Vo.   10:54:10   15   A. Vo.   10:54:10   16   Did the Farrell report, do you   10:54:24   18   statement?   10:54:26   18   Did the farrell report, do you   10:54:27   19   Ripple, who then sold and solicited them   10:57:05   18   In report you re was not was a look of you know what   10:54:38   22   Q. As you sit here now, do you know what   10:54:48   23   Farrell's opinion at a high tevel was?   10:54:49   10:54:49   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:55:04   10:5	4 A. Reading, studying, understanding the SEC 10:53:31	4 was created? 10:56:32
7	5 reports. 10:53:35	5 A. Yes. 10:56:33
8	6 Q. Okay. So it's your testimony that you 10:53:35	6 Q. What's your understanding? 10:56:33
9	7 didn't read the reports for purposes of 10:53:42	7 A. Well, I came to that understanding through 10:56:34
10   Q. Did the Fischel report in any way influence   10.53:49   11   the report you issued here in this case?   10:54:03   12   2   A. No, not at all.   10:54:03   13   20. Did the Farrell report influence in any way   10:54:04   14   the opinion you expressed in this case?   10:54:07   15   A. No.   10:54:10   15   A. No.   10:54:10   15   needs to be determined, but it has no beam   10:57:00   16   Q. With respect to the Farrell report, do you   10:54:10   15   needs to be determined, but it has no beam   10:57:00   16   On my opinion. I understand the defendants   10:57:05   have said that these inventors then gifted a   10:57:12   large quantity of XRP tokens to the company   10:57:12   large quantity of XRP tokens to the company   10:57:12   large quantity of XRP tokens to the company   10:57:12   large quantity of XRP tokens to the company   10:57:27   large quantity of XRP tokens to the company   10:57:27   large quantity of XRP tokens to the company   10:57:27   large quantity of XRP tokens to the company   10:57:27   large quantity of XRP tokens to the company   10:57:27   large quantity of XRP tokens to the company   10:57:27   large quantity of XRP tokens to the company   10:57:27   large quantity of XRP tokens to the company   10:57:27   large tokens   10:57:29   large tokens   10:57:32   large quantity of XRP tokens to the company   10:57:29   large tokens   10:57:45   large tokens	8 forming your opinion in this case? 10:53:47	8 reading the documents we already spoke about, 10:56:36
11	9 A. That's correct. 10:53:49	
12   A. No, not at all.   10:54:03   10:54:04   13   20 poine about, whether they represented Ripple   10:56:55   13   Q. Did the Farrell report influence in any way   10:54:04   14   the opinion you expressed in this case?   10:54:07   15   A. No.   10:54:10   15   A. No.   10:54:10   16   Q. With respect to the Farrell report, do you   10:54:10   16   nave said that there inventors then gifted a   10:57:05   17   rocall reading the intro or preliminary   10:54:26   18   large quantity of XRP tokens to the company,   10:57:12   18   large quantity of XRP tokens to the company,   10:57:12   19   have said that these inventors then gifted a   10:57:20   19   have said that these inventors then gifted a   10:57:12   19   have said that these inventors then gifted a   10:57:12   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:20   10:57:30   10:57:20   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:57:30   10:	10 Q. Did the Fischel report in any way influence 10:53:49	10 by a trio of programmers who I guess 10:56:44
13 Q. Did the Farrell report influence in any way 10:54:04   14 the opinion you expressed in this case? 10:54:07   15 A. No. 10:54:10   16 Q. With respect to the Farrell report, do you 10:54:10   17 recall reading the intro or preliminary 10:54:24   18 statement? 10:56:26   18 statement? 10:54:26   18 statement? 10:54:26   19 kapping the report. I couldn't tell you 10:54:32   20 by opening the report. I couldn't tell you 10:54:32   21 what it said, though, as I sit here now 10:54:35   22 Q. As you is there now, do you know what 1 00:54:44   24 A. No. I mean, I can guess, I can speculate. 10:54:44   25 I'm pretty sure it was not about how to 10:54:59   2 Exentially, that's what I would have 10:55:04   3 Essentially, that's what I would have 10:55:04   4 been looking for, and I'm pretty sure 10:55:04   5 there was nothing in there about that. 10:55:07   5 C. Q. And how about Fischel, sitting here today, 10:55:11   8 level? 10:55:13   9 A. I think, and, again, you're asking me to 10:55:14   10 speculate so I'm going to tell you that's 10:55:21   11 what I'm doing. I shouldn't. I think 10:55:21   11 what I'm doing. I shouldn't. I think 10:55:21   12 they were focused on the question of whether 10:55:36   13 world and solicited them 10:57:20   10:57:27   10:57:27   10:57:27   10:57:27   10:57:27   10:57:29   10:57:35   10:54:44   22   23   24   24   25   26   27   28   29   29   20   20   20   20   20   21   21   22   23   24   24   25   26   27   27   28   28   29   29   20   20   20   20   21   22   23   24   24   25   26   27   28   28   29   29   20   20   20   20   20   21   22   22	11 the report you issued here in this case? 10:54:00	11 it's a legal question that I'm not here to 10:56:52
14	12 A. No, not at all. 10:54:03	12 opine about, whether they represented Ripple 10:56:55
15 A. No.   10:54:10   15   16   20. With respect to the Farrell report, do you   10:54:10   16   20. with respect to the Farrell report, do you   10:54:20   17   recall reading the intro or preliminary   10:54:24   17   recall reading the intro or preliminary   10:54:26   18   statement?   10:54:26   18   large quantity of XRP tokens to the company,   10:57:12   18   large quantity of XRP tokens to the company,   10:57:12   19   A. I recall that that's probably what 1 did   10:54:27   19   Ripple, who then sold and solicited them   10:57:20   10:57:24   19   Ripple, who then sold and solicited them   10:57:20   10:57:24   10:57:24   10:57:25   10   Farrell's opinion at a high level was?   10:54:44   24   A. No. I mean, I can guess, I can speculate.   10:54:44   24   24   A. No. I mean, I can guess, I can speculate.   10:54:44   24   25   Tm pretty sure it was not about how to   10:54:49   25   Tm pretty sure it was not about how to   10:54:49   10:54:53   25   Can be calculated on a classwide basis.   10:54:53   26   26   26   26   26   26   26   2	13 Q. Did the Farrell report influence in any way 10:54:04	13 or whether they were internal or external 10:56:58
16 Q. With respect to the Farrell report, do you 10.54:10 16 recall reading the intro or preliminary 10.54:24 17 have said that these inventors then gifted a 10.57:12 18 statement? 10.54:25 18 large quantity of XRP tokens to the company, 10.57:17 19 Ripple, who then sold and solicited them 10.57:20 19 by opening the report. I couldn't tell you 10:54:32 20 for sale. I understand the plaintiffs say 10:57:24 19 Ripple, who then sold and solicited them 10:57:25 21 these inventors essentially represented 10:57:27 28 Ripple or that Ripple comprised these 10:57:29 11 these inventors essentially represented 10:57:25 21 these inventors essentially represented 10:57:25 21 these inventors essentially represented 10:57:25 22 Ripple or that Ripple comprised these 10:57:25 22 Ripple or that Ripple comprised these 10:57:25 24 and then kept a portion for the company and 10:57:35 25 for themselves and sold the rest and made 10:57:45 25 for themselves and sold the rest and made 10:57:45 27 20 (What is your understanding of the XRP Ledger? 10:57:48 29 (What is your understanding of the XRP Ledger? 10:57:48 29 (What is your understanding of the XRP Ledger? 10:57:48 20 (What is your understanding of the XRP Ledger? 10:57:48 20 (What is your understanding of the XRP Ledger? 10:57:48 20 (What is your understanding of the XRP Ledger? 10:57:48 20 (What is your understanding of the XRP Ledger? 10:57:48 20 (What is your understanding of the XRP Ledger? 10:57:48 20 (What is your understanding of the XRP Ledger? 10:57:48 20 (What is your understanding of the XRP Ledger? 10:57:48 20 (What is your understanding of the XRP Ledger? 10:57:48 20 (What is your understanding in there about that 10:55:07 21 20 (What is your understanding is that then is software 10:58:07 20 (What is your understanding is that there is software 10:58:17 20 (What is your understanding is that there is software 10:58:17 20 (What is your understanding is that there is software 10:58:17 20 (What is your understanding is that there is software 10:58:17 20 (What is your u	14 the opinion you expressed in this case? 10:54:07	14 to Ripple I understand is a question that 10:57:00
17   recall reading the intro or preliminary   10:54:24   18   statement?   10:54:26   19   A. I recall that that's probably what I did   10:54:27   19   A. I recall that that's probably what I did   10:54:27   19   A. I recall that that's probably what I did   10:54:27   19   A. I recall that that's probably what I did   10:54:27   19   Ripple, who then sold and solicited them   10:57:27   19   Ripple, who then sold and solicited them   10:57:24   19   Ripple, who then sold and solicited them   10:57:24   19   Ripple, who then sold and solicited them   10:57:24   19   Ripple, who then sold and solicited them   10:57:24   19   Ripple, who then sold and solicited them   10:57:24   19   Ripple, who then sold and solicited them   10:57:24   19   Ripple, who then sold and solicited them   10:57:24   10:54:38   22   Ripple or that Ripple comprised these   10:57:27   10:57:35   10:54:44   24   A. No. I mean, I can guess, I can speculate.   10:54:49   Page 46   10:55:04   40   Page 48   10:57:44   10   Page 48   10:55:04   40   Page 48   10:55:04   40   Page 48   10:57:45   40	15 A. No. 10:54:10	15 needs to be determined, but it has no bearing 10:57:03
18	16 Q. With respect to the Farrell report, do you 10:54:10	on my opinion. I understand the defendants 10:57:05
19 A. I recall that that's probably what I did 10:54:27	17 recall reading the intro or preliminary 10:54:24	17 have said that these inventors then gifted a 10:57:12
by opening the report. I couldn't tell you 10:54:32 21 what it said, though, as I sit here now. 10:54:35 22 Q. As you sit here now, do you know what 10:54:38 22 Ripple or that Ripple comprised these 10:57:29 inventors, in which case Ripple invented it 10:57:35 24 A. No. I mean, I can guess, I can speculate. 10:54:44 24 and then kept a portion for the company and 10:57:35 24 and then kept a portion for the company and 10:57:35 25 I'm pretty sure it was not about how to 10:54:49 Page 46 24 25 Can be calculated on a classwide basis. 10:54:56 2 Q. What is your understanding of the XRP Ledger? 10:57:48 2 Q. What is your understanding of the XRP Ledger? 10:57:48 2 Q. What is your understanding of the XRP Ledger? 10:57:54 2 Q. What is your understanding of the XRP Ledger? 10:57:58 2 Q. What is your understanding of the XRP Ledger? 10:57:58 2 Q. What is your understanding of the XRP Ledger? 10:57:58 2 Q. What is your understanding of the XRP Ledger? 10:57:58 2 Q. What is your understanding of the XRP Ledger? 10:57:58 2 Q. What is your understanding of the XRP Ledger? 10:57:58 2 Q. What is your understanding of the XRP Ledger? 10:57:58 2 Q. What is your understanding of the XRP Ledger? 10:57:58 2 Q. What is your understanding of the XRP Ledger? 10:57:58 2 Q. What is your understanding of the XRP Ledger? 10:57:58 2 Q. What is your understanding of the XRP Ledger? 10:57:58 2 Q. What is your understanding of the XRP Ledger? 10:57:48 2 Q. What is your understanding of the XRP Ledger? 10:57:48 2 Q. What is your understanding of the XRP Ledger? 10:57:48 2 Q. What is your understanding of the XRP Ledger? 10:57:48 2 Q. What is your understanding of the XRP Ledger? 10:57:48 2 Q. What is your understanding of the XRP Ledger? 10:57:48 2 Q. What is your understanding of the XRP Ledger? 10:57:48 2 Q. What is your understanding of the XRP Ledger? 10:57:48 2 Q. What is your understanding of the XRP Ledger? 10:57:48 2 Q. What is your understanding of the XRP Ledger? 10:57:48 4 A. There's a lot to say about that, but it have ledger faci	18 statement? 10:54:26	large quantity of XRP tokens to the company, 10:57:17
21 what it said, though, as I sit here now. 10:54:35 2 Q. As you sit here now, do you know what 10:54:38 2 A. No. I mean, I can guess, I can speculate. 10:54:49 2 Tm pretty sure it was not about how to 10:54:49 2 Farrell's opinion at a high level was? 10:54:49 2 Tm pretty sure it was not about how to 10:54:49 2 Tm pretty sure it was not about how to 10:54:49 2 Calculate damages and whether damages can be calculated on a classwide basis. 10:54:56 2 Can be calculated on a classwide basis. 10:54:56 3 Essentially, that's what I would have 10:55:02 4 been looking for, and I'm pretty sure 10:55:04 5 there was nothing in there about that. 10:55:04 6 Q. And how about Fischel, sitting here today, 10:55:08 7 can you describe his opinion at a high 10:55:11 8 level? 10:55:13 9 A. I think, and, again, you're asking me to 10:55:14 10 speculate so I'm going to tell you that's 10:55:18 11 what I'm doing. I shouldn't. I think 10:55:21 12 they were focused on the question of whether 10:55:33 14 think that's the case. I might be wrong 10:55:36 15 about that, but I do know that what they 10:55:540 16 Q. And what is Ripple? 10:55:44 17 scope of my engagement was. 10:55:55 18 Q. What is XRP? 10:55:54 19 MR. SPEAR: Objection, scope. 10:58:55 10 A. It's a digital asset. 10:55:55 20 A. It's a digital asset. 10:55:55 21 Q. And what is Ripple? 10:55:55 22 A. Ripple is the company that sold or solicited 10:56:12 23 this for sale, this digital asset. And I 10:56:12 24 this for sale, this digital asset. And I 10:55:16 25 the ledger facilitate transactions 10:57:59 26 the company that sold or solicited 10:56:12 27 three inventors essentially ploe charia flipple comprised these 10:57:25 28 inventors, in which case Ripple invented it 10:57:25 29 the ledger facilitate transaction of 0:57:45 20 (What is XRP!-caper? 10:57:45 21 (What is XRP!-caper? 10:57:45 22 (What is Ripple comprised these 10:57:25 23 (What is Arrel a dithen kept a portion for the company and a 10:57:41 24 (A. There's a lot to say about that, but it's 10:57:54 25 (What is SRP.E	19 A. I recall that that's probably what I did 10:54:27	Ripple, who then sold and solicited them 10:57:20
22 Q. As you sit here now, do you know what 10:54:38   22 Ripple or that Ripple comprised these 10:57:29   23 Farrell's opinion at a high level was? 10:54:44   24 and then kept a portion for the company and 10:57:35   25 for themselves and sold the rest and made 10:57:45   26 for themselves and sold the rest and made 10:57:45   27 and then kept a portion for the company and 10:57:35   28 for themselves and sold the rest and made 10:57:45   29 (What is your understanding of the XRP Ledger? 10:57:48   20 (What is your understanding of the XRP Ledger? 10:57:54   20 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding of the XRP Ledger? 10:57:54   30 (What is your understanding is that the test and made 10:57:45   30 (What is your understanding is that there is software 10:58:15   30 (What is XRP is placed)   30 (What is XRP is plac	20 by opening the report. I couldn't tell you 10:54:32	20 for sale. I understand the plaintiffs say 10:57:24
23 Farrell's opinion at a high level was? 10:54:41 24 A. No. I mean, I can guess, I can speculate. 10:54:49 25 I'm pretty sure it was not about how to 10:54:49 26 Page 46  1 calculate damages and whether damages 10:54:53 2 can be calculated on a classwide basis. 10:54:56 3 Essentially, that's what I would have 10:55:02 4 been looking for, and I'm pretty sure 10:55:04 5 there was nothing in there about that. 10:55:07 6 Q. And how about Fischel, sitting here today, 10:55:11 8 level? 10:55:14 10 speculate so I'm going to tell you that's 10:55:12 11 what I'm doing. I shouldn't. I think 10:55:12 12 they were focused on the question of whether 10:55:26 13 or not a digital asset is a security. I 10:55:33 14 think that's the case. I might be wrong 10:55:44 16 wrote about was not relevant to what the wrote about was not relevant to what the 10:55:40 17 scope of my engagement was. 10:55:44 18 Q. What is XRP? 10:55:55 18 Q. And what is Ripple? 10:55:55 19 Q. And what is Ripple? 10:55:55 20 A. Ripple is the company that sold or solicited 10:56:10 21 this for sale, this digital asset. And I 10:56:12 22 this for sale the rest. 10:57:45 24 and then kept a portion for the company and 10:57:35 25 for themselves and sold the rest and made 10:57:41 26 and then kept a portion for the company and 10:57:35 27 for themselves and sold the rest and made 10:57:45 28 and then kept a portion for the company and 10:57:45 29 (What is your understanding of the XRP Ledger? 10:57:48 3 MR. SPEAR: Objection to scope. 10:57:54 4 A. There's a lot to say about that, but it's 10:57:54 5 records ownership in transactions and also 10:58:05 8 Q. How does the ledger facilitate transactions? 10:58:05 8 Q. How does the ledger facilitate transactions? 10:58:12 10 A. My understanding is that there is software 10:58:15 11 that lets traders or investors interact with 10:58:26 12 Q. Do you have an understanding as to whether 10:58:36 13 the ledger. 10:58:49 14 Q. Do you have an understanding as to whether 10:58:54 15 A. Every asset has specific 10:58:59 16 Q.	21 what it said, though, as I sit here now. 10:54:35	21 these inventors essentially represented 10:57:27
24 A. No. I mean, I can guess, I can speculate. 10:54:44 25 I'm pretty sure it was not about how to 10:54:49 Page 46  1 calculate damages and whether damages 10:54:56 2 can be calculated on a classwide basis. 10:54:56 3 Essentially, that's what I would have 10:55:02 4 been looking for, and I'm pretty sure 10:55:04 5 there was nothing in there about that. 10:55:07 6 Q. And how about Fischel, sitting here today, 10:55:08 7 can you describe his opinion at a high 10:55:13 8 level? 10:55:13 9 A. I think, and, again, you're asking me to 10:55:14 10 speculate so I'm going to tell you that's 10:55:21 11 what I'm doing. I shouldn't. I think 10:55:27 12 they were focused on the question of whether 10:55:33 14 think that's the case. I might be wrong 10:55:36 15 about that, but I do know that what they 10:55:44 16 wrote about was not relevant to what the 10:55:45 17 scope of my engagement was. 10:55:44 18 Q. What is XPP? 10:55:54 19 MR. SPEAR: Objection, scope. 10:55:54 10 Q. And what is rightly blockchain technology that 10:58:05 10 A. It's a digital asset. 10:55:54 11 Q. And what is a security. I 10:55:55 12 Q. And what is rightly blockchain technology that 10:58:36 15 about that, but I do know that what they 10:55:38 16 Wrote about was not relevant to what the 10:55:40 17 scope of my engagement was. 10:55:44 18 Q. What is XPP? 10:55:55 19 MR. SPEAR: Objection, scope. 10:58:54 19 MR. SPEAR: Objection, scope. 10:55:54 20 A. It's a digital asset. 10:55:55 21 Q. And what is Ripple? 10:55:55 22 A. Ripple is the company that sold or solicited 10:56:10 23 this for sale, this digital asset. And I 10:56:12 24 understand the kept a portion for the company and 10:57:41 Page 48  10:57:45 2 Q. What is your understanding of the XRP Ledger? 10:57:48 10:57:54 14 A. There's a lot to say about that, but it's 10:57:54 15 a digital asset is a security. I 10:55:14 10:55:14 10 that lets transactions. 10:58:05 11 that lets traders or investors interact with 10:58:21 12 the ledger to consummate trades directly on 10:58:36 13 think that's the c	22 Q. As you sit here now, do you know what 10:54:38	22 Ripple or that Ripple comprised these 10:57:29
25 I'm pretty sure it was not about how to 10:54:49 Page 46  1 calculate damages and whether damages 2 can be calculated on a classwide basis. 10:54:56 2 can be calculated on a classwide basis. 10:54:56 3 Essentially, that's what I would have 10:55:02 3 MR. SPEAR: Objection to scope. 10:57:53 4 A. There's a lot to say about that, but it's 10:57:54 2 essentially blockchain technology that 10:55:07 5 4 A. There's a lot to say about that, but it's 10:57:58 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23 Farrell's opinion at a high level was? 10:54:41	23 inventors, in which case Ripple invented it 10:57:32
Page 46  1 calculate damages and whether damages 2 can be calculated on a classwide basis. 10:54:56 3 Essentially, that's what I would have 10:55:02 4 been looking for, and I'm pretty sure 10:55:04 5 there was nothing in there about that. 10:55:07 6 Q. And how about Fischel, sitting here today, 10:55:08 7 can you describe his opinion at a high 10:55:11 8 level? 10:55:13 9 A. I think, and, again, you're asking me to 10:55:14 10 speculate so I'm going to tell you that's 10:55:14 11 what I'm doing. I shouldn't. I think 10:55:21 12 they were focused on the question of whether 10:55:27 13 or not a digital asset is a security. I 10:55:33 14 think that's the case. I might be wrong 10:55:36 15 about that, but I do know that what they 10:55:40 16 wrote about was not relevant to what the 10:55:40 17 scope of my engagement was. 10:55:42 18 Q. What is XPP? 10:55:55 19 MR. SPEAR: Objection, scope. 10:58:51 10 A. My understanding is that there is software 10:58:42 16 wrote about was not relevant to what the 10:55:40 17 scope of my engagement was. 10:55:54 18 Q. What is XPP? 10:55:55 20 A. It's a digital asset. 10:55:55 21 Q. And what is Ripple? 10:55:55 22 A. Ripple is the company that sold or solicited 10:56:10 24 understand these are some of the questions 10:56:16 25 Q. Do you know what any of those idiosyncracies 10:59:07 26 Q. Do you know what any of those idiosyncracies 10:59:07 27 or distinguishing features of XRP are? 10:59:10	24 A. No. I mean, I can guess, I can speculate. 10:54:44	24 and then kept a portion for the company and 10:57:35
1 calculate damages and whether damages 2 can be calculated on a classwide basis. 10:54:56 2 can be calculated on a classwide basis. 10:54:56 2 can be calculated on a classwide basis. 10:54:56 2 can be calculated on a classwide basis. 10:54:56 2 can be calculated on a classwide basis. 10:55:02 3 MR. SPEAR: Objection to scope. 10:57:53 4 been looking for, and I'm pretty sure 10:55:04 4 A. There's a lot to say about that, but it's 10:57:54 essentially blockchain technology that 10:57:58 10:57:58 10:55:13 6 Q. And how about Fischel, sitting here today, 10:55:08 6 records ownership in transactions and also 10:58:01 7 facilitates transactions and also 10:58:01 8 Q. How does the ledger facilitate transactions? 10:58:05 8 Q. How does the ledger facilitate transactions? 10:58:15 10 A. My understanding is that there is software 10:58:17 11 what I'm doing. I shouldn't. I think 10:55:21 11 that lets traders or investors interact with 10:58:21 11 the ledger to consummate trades directly on 10:58:26 11 worde about was not relevant to what the 10:55:40 11 who that is XRP? 10:55:44 11 What is XRP? 10:55:44 11 MR. SPEAR: Objection, scope. 10:58:55 11 MR. SPEAR: Objection, scope. 10:55:55 12 MR. SPEAR: Objection, scope. 10:55:50 12 MR. SPEAR: Objection, scope. 10:58:51 12 MR. SPEAR: Objection, scope. 10:58:51 13 MR. SPEAR: Objection, scope. 10:58:51 14 MR. SPEAR: Objection, scope. 10:		
2 can be calculated on a classwide basis. 10:54:56 3 Essentially, that's what I would have 10:55:02 4 been looking for, and I'm pretty sure 10:55:04 5 there was nothing in there about that. 10:55:07 5 there was nothing in there about that. 10:55:07 5 essentially blockchain technology that 10:57:58 6 Q. And how about Fischel, sitting here today, 10:55:18 1 level? 10:55:13 1 level? 10:55:13 1 level? 10:55:14 1 speculate so I'm going to tell you that's 10:55:14 1 what I'm doing. I shouldn't. I think 10:55:21 1 they were focused on the question of whether 10:55:27 1 that lets traders or investors interact with 10:58:21 1 that lets traders or investors interact with 10:58:26 1 that lets traders or investors interact with 10:58:36 1 about that, but I do know that what they 10:55:40 1 wrote about was not relevant to what the 10:55:40 1 MR. SPEAR: Objection, scope. 10:58:36 1 MR. SPEAR: Objection to scope. 10:57:54 4 A. There's a lot to say about that, but it is 10:57:54 5 essentially blockchain technology that 10:57:54 1 facilitates transactions. 10:58:01 7 facilitates transactions. 10:58:01 7 facilitates transactions. 10:58:01 7 facilitates transactions. 10:58:15 10:58:15 10 MR. SPEAR: Objection, scope. 10:58:15 10 A. My understanding is that there is software 10:58:17 1 that lets traders or investors interact with 10:58:21 1 the ledger to consummate trades directly on 10:58:26 1 1 the ledger. 10:58:36 1 MR. SPEAR: Objection, scope. 10:55:34 1 MR. SPEAR: Objection, scope. 10:55:44 1 MR. SPEAR: Objection, scope. 10:55:55 1 MR. SPEAR: Objection, scope. 10:58:51 1 MR. SPEAR: Objection, scope. 10:55:54 1 MR. SPEAR: Objection, scope. 10:55:55 1 MR. SPEAR: Objection, scope. 10:55:55 1 MR. SPEAR: Objection, scope. 10:55:55 1 MR. SPEAR: Objection, scope. 10:58:55 1 MR. SPEAR: Objection, scope. 10:58:55 1 MR. SPEAR: Objection, scope. 10:58:55 1 MR. SPEAR: Objection, sc	Page 46	Page 48
Essentially, that's what I would have 10:55:02   3 MR. SPEAR: Objection to scope. 10:57:53   4 been looking for, and I'm pretty sure 10:55:04   4 A. There's a lot to say about that, but it's 10:57:54   5 there was nothing in there about that. 10:55:07   5 essentially blockchain technology that 10:57:58   6 Q. And how about Fischel, sitting here today, 10:55:08   7 can you describe his opinion at a high 10:55:11   7 facilitates transactions and also 10:58:01   7 facilitates transactions and also 10:58:05   8 Q. How does the ledger facilitate transactions? 10:58:15   9 MR. SPEAR: Objection, scope. 10:58:15   10 speculate so I'm going to tell you that's 10:55:18   10 speculate so I'm going to tell you that's 10:55:18   11 that I'm doing. I shouldn't. I think 10:55:21   12 they were focused on the question of whether 10:55:33   14 think that's the case. I might be wrong 10:55:36   15 about that, but I do know that what they 10:55:38   16 wrote about was not relevant to what the 10:55:40   17 scope of my engagement was. 10:55:40   10:55:54   18 Q. What is XRP? 10:55:54   19 MR. SPEAR: Objection, scope. 10:58:55   10:58:55   10 A. My understanding is that there is software 10:58:36   10:58:36   10:58:36   10:58:36   10:58:36   10:58:36   10:58:36   10:58:36   10:58:36   10:58:36   10:58:36   10:58:36   10:58:36   10:58:36   10:59:06   10:58:59   10:59:06   10:59:07   10:59:06   10:59:07   10:59:10	1 calculate damages and whether damages 10:54:53	1 available for sale the rest. 10:57:45
been looking for, and I'm pretty sure  10:55:04  there was nothing in there about that.  10:55:07  Q. And how about Fischel, sitting here today, 10:55:08  can you describe his opinion at a high 10:55:11  level? 10:55:13  A. I think, and, again, you're asking me to 10:55:14  packed as peculate so I'm going to tell you that's 10:55:18  that I'm doing. I shouldn't. I think 10:55:21  they were focused on the question of whether 10:55:37  think that's the case. I might be wrong 10:55:38  think that's the case. I might be wrong 10:55:40  Wrote about was not relevant to what the 10:55:42  Q. What is XRP? 10:55:42  Q. What is XRP? 10:55:55  MR. SPEAR: Objection, scope. 10:58:53  MR. SPEAR: Objection, scope. 10:58:54  Q. What is XRP? 10:55:55  MR. SPEAR: Objection, scope. 10:58:59  MR. SPEAR: Objection, scope. 10:58:59  A. Every asset, every stock, Apple stock versus 10:58:59  idiosyncracies and distinctive features. So 10:59:07  and of distinguishing features of XRP are? 10:59:10	2 can be calculated on a classwide basis. 10:54:56	2 Q. What is your understanding of the XRP Ledger? 10:57:48
there was nothing in there about that. 10:55:07  Q. And how about Fischel, sitting here today, 10:55:08  records ownership in transactions and also 10:58:01  level? 10:55:13  A. I think, and, again, you're asking me to 10:55:14  speculate so I'm going to tell you that's 10:55:18  what I'm doing. I shouldn't. I think 10:55:21  they were focused on the question of whether 10:55:27  think that's the case. I might be wrong 10:55:36  think that's the case. I might be wrong 10:55:40  wrote about was not relevant to what the 10:55:42  Q. What is XRP? 10:55:44  Q. What is XRP? 10:55:54  Q. And what is Ripple? 10:55:55  And I think and, again, you're asking me to 10:55:50  And My understanding is that there is software 10:58:15  And My understanding is that there is software 10:58:16  And My understanding is that there is software 10:58:17  that lets traders or investors interact with 10:58:21  the ledger to consummate trades directly on 10:58:36  the ledger. 10:58:35  And Q. Do you have an understanding as to whether 10:58:42  to other digital assets, like, for example, 10:58:54  MR. SPEAR: Objection, scope. 10:58:53  MR. SPEAR: Objection, scope. 10:58:54  MR. SPEAR: Objection, scope. 10:58:55  And What is Ripple? 10:55:55  And What is Ripple? 10:55:55  this for sale, this digital asset. And I 10:56:12  understand these are some of the questions 10:56:16  To distinguishing features of XRP are? 10:59:10	3 Essentially, that's what I would have 10:55:02	3 MR. SPEAR: Objection to scope. 10:57:53
6 Q. And how about Fischel, sitting here today, 10:55:08 7 can you describe his opinion at a high 10:55:11 8 level? 10:55:13 9 A. I think, and, again, you're asking me to 10:55:14 10 speculate so I'm going to tell you that's 10:55:18 11 what I'm doing. I shouldn't. I think 10:55:21 12 they were focused on the question of whether 10:55:27 13 or not a digital asset is a security. I 10:55:33 14 think that's the case. I might be wrong 10:55:36 15 about that, but I do know that what they 10:55:38 16 wrote about was not relevant to what the 10:55:40 17 scope of my engagement was. 10:55:42 18 Q. What is XRP? 10:55:54 19 MR. SPEAR: Objection, scope. 10:58:53 10 A. My understanding is that there is software 10:58:21 11 that lets traders or investors interact with 10:58:21 12 the ledger to consummate trades directly on 10:58:36 13 the ledger. 10:58:35 14 think that's the case. I might be wrong 10:55:38 15 about that, but I do know that what they 10:55:38 16 wrote about was not relevant to what the 10:55:40 17 scope of my engagement was. 10:55:42 18 Q. What is XRP? 10:55:54 19 MR. SPEAR: Objection, scope. 10:55:55 20 A. It's a digital asset. 10:55:55 21 Q. And what is Ripple? 10:55:55 22 A. Ripple is the company that sold or solicited 10:56:10 23 this for sale, this digital asset. And I 10:56:12 24 understand these are some of the questions 10:56:16 25 records ownership in transactions. 10:58:01 26 records ownership in transactions. 10:58:10 27 dicilitate transactions. 10:58:12 28 Q. How does the ledger facilitate transactions? 10:58:12 29 MR. SPEAR: Objection, scope. 10:58:15 10 A. My understanding is that there is software 10:58:17 11 that lets traders or investors interact with 10:58:21 11 the ledger to consummate trades directly on 10:58:26 12 the ledger to consummate trades directly on 10:58:26 13 the ledger. 10:58:35 14 Q. Do you have an understanding as to whether 10:58:36 15 ARP has features that are different than 10:58:42 16 other digital assets, like, for example, 10:58:54 17 Bitcoin or Ethereum? 10:58:55 18	4 been looking for, and I'm pretty sure 10:55:04	4 A. There's a lot to say about that, but it's 10:57:54
7 can you describe his opinion at a high 10:55:11 7 facilitates transactions. 10:58:05 8 level? 10:55:13 8 Q. How does the ledger facilitate transactions? 10:58:12 9 A. I think, and, again, you're asking me to 10:55:14 9 MR. SPEAR: Objection, scope. 10:58:15 10 speculate so I'm going to tell you that's 10:55:18 10 A. My understanding is that there is software 10:58:17 11 what I'm doing. I shouldn't. I think 10:55:21 11 that lets traders or investors interact with 10:58:21 12 they were focused on the question of whether 10:55:27 12 the ledger to consummate trades directly on 10:58:35 13 the ledger. 10:58:35 14 think that's the case. I might be wrong 10:55:36 14 Q. Do you have an understanding as to whether 10:58:36 15 About that, but I do know that what they 10:55:38 15 XRP has features that are different than 10:58:42 16 other digital assets, like, for example, 10:58:48 17 Bitcoin or Ethereum? 10:58:51 18 Q. What is XRP? 10:55:54 18 MR. SPEAR: Objection, scope. 10:58:53 19 A. Every asset, every stock, Apple stock versus 10:58:54 20 Google stock, every asset has specific 10:58:59 10:59:06 21 this for sale, this digital asset. And I 10:56:12 24 understand these are some of the questions 10:56:16 24 or distinguishing features of XRP are? 10:59:10	5 there was nothing in there about that. 10:55:07	5 essentially blockchain technology that 10:57:58
8 level? 10:55:13 8 Q. How does the ledger facilitate transactions? 10:58:12  9 A. I think, and, again, you're asking me to 10:55:14 9 MR. SPEAR: Objection, scope. 10:58:15  10 speculate so I'm going to tell you that's 10:55:18 10 A. My understanding is that there is software 10:58:17  11 what I'm doing. I shouldn't. I think 10:55:21 11 that lets traders or investors interact with 10:58:21  12 they were focused on the question of whether 10:55:33 13 the ledger to consummate trades directly on 10:58:26  13 or not a digital asset is a security. I 10:55:33 14 think that's the case. I might be wrong 10:55:36 15 about that, but I do know that what they 10:55:38 15 XRP has features that are different than 10:58:42 16 wrote about was not relevant to what the 10:55:40 16 other digital assets, like, for example, 10:58:51 18 Q. What is XRP? 10:55:44 18 MR. SPEAR: Objection, scope. 10:58:53 19 MR. SPEAR: Objection, scope. 10:55:54 20 A. It's a digital asset. 10:55:55 21 Q. And what is Ripple? 10:55:55 21 diosyncracies and distinctive features. So 10:59:02 22 A. Ripple is the company that sold or solicited 10:56:10 24 or distinguishing features of XRP are? 10:59:10	6 Q. And how about Fischel, sitting here today, 10:55:08	6 records ownership in transactions and also 10:58:01
9 A. I think, and, again, you're asking me to 10:55:14 10 speculate so I'm going to tell you that's 10:55:18 11 what I'm doing. I shouldn't. I think 10:55:21 11 that lets traders or investors interact with 10:58:17 11 what I'm doing. I shouldn't. I think 10:55:21 11 that lets traders or investors interact with 10:58:21 12 they were focused on the question of whether 10:55:27 13 or not a digital asset is a security. I 10:55:33 13 the ledger. 10:58:35 14 think that's the case. I might be wrong 10:55:36 14 Q. Do you have an understanding as to whether 10:58:36 15 about that, but I do know that what they 10:55:38 15 XRP has features that are different than 10:58:42 16 wrote about was not relevant to what the 10:55:40 16 other digital assets, like, for example, 10:58:51 18 Q. What is XRP? 10:55:54 18 MR. SPEAR: Objection, scope. 10:55:54 19 MR. SPEAR: Objection, scope. 10:55:55 19 A. Every asset, every stock, Apple stock versus 10:58:54 20 Google stock, every asset has specific 10:58:59 21 Q. And what is Ripple? 10:55:55 22 would XRP. 10:59:06 23 this for sale, this digital asset. And I 10:56:12 24 or distinguishing features of XRP are? 10:59:10	7 can you describe his opinion at a high 10:55:11	7 facilitates transactions. 10:58:05
speculate so I'm going to tell you that's 10:55:18 10 A. My understanding is that there is software 10:58:17 11 what I'm doing. I shouldn't. I think 10:55:21 11 that lets traders or investors interact with 10:58:21 12 they were focused on the question of whether 10:55:27 12 the ledger to consummate trades directly on 10:58:26 13 or not a digital asset is a security. I 10:55:38 13 the ledger. 10:58:35 14 think that's the case. I might be wrong 10:55:36 15 about that, but I do know that what they 10:55:38 15 XRP has features that are different than 10:58:42 16 wrote about was not relevant to what the 10:55:40 16 other digital assets, like, for example, 10:58:48 17 scope of my engagement was. 10:55:42 17 Bitcoin or Ethereum? 10:58:51 18 Q. What is XRP? 10:55:44 18 MR. SPEAR: Objection, scope. 10:58:53 19 A. Every asset, every stock, Apple stock versus 10:58:54 20 Google stock, every asset has specific 10:58:59 10:59:02 22 A. Ripple is the company that sold or solicited 10:56:10 22 would XRP. 10:59:06 23 this for sale, this digital asset. And I 10:56:12 24 or distinguishing features of XRP are? 10:59:10	8 level? 10:55:13	8 Q. How does the ledger facilitate transactions? 10:58:12
they were focused on the question of whether 10:55:27 they were focused on the question of whether 10:55:27 they were focused on the question of whether 10:55:27 they were focused on the question of whether 10:55:27 they were focused on the question of whether 10:55:27 they were focused on the question of whether 10:55:27 they were focused on the question of whether 10:55:27 they were focused on the question of whether 10:55:27 they were focused on the question of whether 10:55:27 they were focused on the question of whether 10:55:28 the ledger to consummate trades directly on 10:58:26 the ledger. 10:58:35 the ledger. 10:58:36 the ledger. 10:58:48 the ledger. 10:58:49 the ledger to consummate trades directly on 10:58:26 the ledger to consummate trades directly on 10:58:48 the ledger. 10:58:49 the ledger. 10:58:49 the ledger to consummate trades directly on 10:58:48 the ledger to consummate trades directly on 10:58:48 the ledger. 10:58:49 the ledger to consummate trades directly on 10:58:48 the ledger. 10:58:49 the ledger to consumate trades directly on 10:58:48 the ledger to consumate trades directly on 10:58:48 the ledger to consumate trades directly on 10:58:48 the ledger to consumate trades directly on 10	9 A. I think, and, again, you're asking me to 10:55:14	9 MR. SPEAR: Objection, scope. 10:58:15
they were focused on the question of whether 10:55:27 or not a digital asset is a security. I 10:55:33 the ledger. 10:58:35  14 think that's the case. I might be wrong 10:55:36 think that, but I do know that what they 10:55:38 the ledger. 10:58:35  15 about that, but I do know that what they 10:55:38 the ledger. 10:58:36  16 wrote about was not relevant to what the 10:55:40 the religious about that is XRP? 10:55:42 the ledger. 10:58:35  17 KRP has features that are different than 10:58:42 the other digital assets, like, for example, 10:58:48 the other digital assets, like, for example, 10:58:51 the ledger. 10:58:36  18 What is XRP has features that are different than 10:58:42 the other digital assets, like, for example, 10:58:48 the ledger. 10:58:36  19 KRP has features that are different than 10:58:42 the other digital assets, like, for example, 10:58:48 the ledger. 10:58:36  10 What is ARP has features that are different than 10:58:42 the other digital assets, like, for example, 10:58:48 the ledger. 10:58:36 the ledger. 10:58:48 the ledger.	speculate so I'm going to tell you that's 10:55:18	10 A. My understanding is that there is software 10:58:17
or not a digital asset is a security. I 10:55:33	what I'm doing. I shouldn't. I think 10:55:21	11 that lets traders or investors interact with 10:58:21
think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:36 think that's the case. I might be wrong 10:55:42 think that's the case. I might be wrong 10:55:38 think that's the case. I might be wrong 10:55:42 think that's the case. I might be wrong 10:55:42 think that's the case. I might be wrong 10:55:42 think that's the case. I might be wrong 10:55:42 think that's the case. I might be wrong 10:55:42 the case. I might be described in the different than 10:58:42 the case. I might be defined that are different than 10:58:42 the case. I might be wrong 10:55:42 the case. I might be defined that are different than 10:58:42 the case. I might be wrong 10:55:	they were focused on the question of whether 10:55:27	the ledger to consummate trades directly on 10:58:26
about that, but I do know that what they 10:55:38 15 XRP has features that are different than 10:58:42 16 wrote about was not relevant to what the 10:55:40 16 other digital assets, like, for example, 10:58:48 17 scope of my engagement was. 10:55:42 17 Bitcoin or Ethereum? 10:58:51 18 Q. What is XRP? 10:55:44 18 MR. SPEAR: Objection, scope. 10:55:53 19 MR. SPEAR: Objection, scope. 10:55:53 19 A. Every asset, every stock, Apple stock versus 10:58:54 20 Google stock, every asset has specific 10:58:59 21 Q. And what is Ripple? 10:55:55 21 idiosyncracies and distinctive features. So 10:59:02 22 would XRP. 10:59:06 23 this for sale, this digital asset. And I 10:56:12 24 understand these are some of the questions 10:56:16 24 or distinguishing features of XRP are? 10:59:10	or not a digital asset is a security. I 10:55:33	13 the ledger. 10:58:35
wrote about was not relevant to what the 10:55:40 16 other digital assets, like, for example, 10:58:48 17 scope of my engagement was. 10:55:42 17 Bitcoin or Ethereum? 10:58:51 18 Q. What is XRP? 10:55:44 18 MR. SPEAR: Objection, scope. 10:58:53 19 MR. SPEAR: Objection, scope. 10:55:53 19 A. Every asset, every stock, Apple stock versus 10:58:54 20 Google stock, every asset has specific 10:58:59 21 Q. And what is Ripple? 10:55:55 21 idiosyncracies and distinctive features. So 10:59:02 22 A. Ripple is the company that sold or solicited 10:56:00 23 this for sale, this digital asset. And I 10:56:12 24 understand these are some of the questions 10:56:16 24 or distinguishing features of XRP are? 10:59:10	think that's the case. I might be wrong 10:55:36	14 Q. Do you have an understanding as to whether 10:58:36
17 scope of my engagement was. 10:55:42 18 Q. What is XRP? 10:55:44 19 MR. SPEAR: Objection, scope. 10:55:53 19 MR. SPEAR: Objection, scope. 10:55:54 20 A. It's a digital asset. 10:55:54 21 Q. And what is Ripple? 10:55:55 22 A. Ripple is the company that sold or solicited 10:56:00 23 this for sale, this digital asset. And I 10:56:12 24 understand these are some of the questions 10:56:16  17 Bitcoin or Ethereum? 10:58:51 18 MR. SPEAR: Objection, scope. 10:58:53 19 A. Every asset, every stock, Apple stock versus 10:58:54 20 Google stock, every asset has specific 10:58:59 21 idiosyncracies and distinctive features. So 10:59:02 22 would XRP. 10:59:06 23 Q. Do you know what any of those idiosyncracies 10:59:07 24 or distinguishing features of XRP are? 10:59:10	about that, but I do know that what they 10:55:38	15 XRP has features that are different than 10:58:42
18 Q. What is XRP? 10:55:44  19 MR. SPEAR: Objection, scope. 10:55:53  10 MR. SPEAR: Objection, scope. 10:55:54  20 A. It's a digital asset. 10:55:54  21 Q. And what is Ripple? 10:55:55  22 A. Ripple is the company that sold or solicited 10:56:00  23 this for sale, this digital asset. And I 10:56:12  24 understand these are some of the questions 10:56:16  18 MR. SPEAR: Objection, scope. 10:58:53  19 A. Every asset, every stock, Apple stock versus 10:58:54  20 Google stock, every asset has specific 10:58:59  21 idiosyncracies and distinctive features. So 10:59:02  22 would XRP. 10:59:06  23 Q. Do you know what any of those idiosyncracies 10:59:07  24 or distinguishing features of XRP are? 10:59:10	wrote about was not relevant to what the 10:55:40	other digital assets, like, for example, 10:58:48
18 Q. What is XRP? 10:55:44  19 MR. SPEAR: Objection, scope. 10:55:53  10 MR. SPEAR: Objection, scope. 10:55:54  20 A. It's a digital asset. 10:55:54  21 Q. And what is Ripple? 10:55:55  22 A. Ripple is the company that sold or solicited 10:56:00  23 this for sale, this digital asset. And I 10:56:12  24 understand these are some of the questions 10:56:16  18 MR. SPEAR: Objection, scope. 10:58:53  19 A. Every asset, every stock, Apple stock versus 10:58:54  20 Google stock, every asset has specific 10:58:59  21 idiosyncracies and distinctive features. So 10:59:02  22 would XRP. 10:59:06  23 Q. Do you know what any of those idiosyncracies 10:59:07  24 or distinguishing features of XRP are? 10:59:10	17 scope of my engagement was. 10:55:42	
MR. SPEAR: Objection, scope. 10:55:53  20 A. It's a digital asset. 10:55:54  21 Q. And what is Ripple? 10:55:55  22 A. Ripple is the company that sold or solicited 10:56:00  23 this for sale, this digital asset. And I 10:56:12  24 understand these are some of the questions 10:56:16		
20 A. It's a digital asset. 10:55:54 20 Google stock, every asset has specific 10:58:59 21 Q. And what is Ripple? 10:55:55 21 idiosyncracies and distinctive features. So 10:59:02 22 A. Ripple is the company that sold or solicited 10:56:00 23 this for sale, this digital asset. And I 10:56:12 24 understand these are some of the questions 10:56:16 24 Or distinguishing features of XRP are? 10:59:10		
21 Q. And what is Ripple? 10:55:55 22 A. Ripple is the company that sold or solicited 10:56:00 23 this for sale, this digital asset. And I 10:56:12 24 understand these are some of the questions 10:56:16 25 tidiosyncracies and distinctive features. So 10:59:02 26 would XRP. 10:59:06 27 Q. Do you know what any of those idiosyncracies 10:59:07 28 Q. Do you know what any of those idiosyncracies 10:59:10		
22 A. Ripple is the company that sold or solicited 10:56:00 22 would XRP. 10:59:06 23 this for sale, this digital asset. And I 10:56:12 23 Q. Do you know what any of those idiosyncracies 10:59:07 24 understand these are some of the questions 10:56:16 24 or distinguishing features of XRP are? 10:59:10		
this for sale, this digital asset. And I 10:56:12 23 Q. Do you know what any of those idiosyncracies 10:59:07 understand these are some of the questions 10:56:16 24 or distinguishing features of XRP are? 10:59:10		
understand these are some of the questions 10:56:16 24 or distinguishing features of XRP are? 10:59:10		
	25 it's a company, it's a company involved in, 10:56:18	25 A. How one answers that question is the matter 10:59:13
		Page 49

## Case 4:18-cv-06753-PJH Document 243-4 Filed 04/19/23 Page 15 of 80

1 of some debate that has, in my opinion, 10:59:19	1 methodology? 11:02:24
2 no bearing on my opinions. It's not 10:59:21	2 A. Yes. 11:02:25
3 something I wrote about in my report or 10:59:23	3 Q. Does that methodology need to take into 11:02:25
4 expressed as an opinion. There are 10:59:26	4 account the contractual terms that are 11:02:28
5 representations and allegations from both 10:59:34	5 expressed in the bilateral contract? 11:02:31
6 sides in this case about what XRP was 10:59:37	6 A. Just the prices and the quantities and the 11:02:33
7 used for and how it would be used and why 10:59:41	7 times. Prices, quantities, the form of 11:02:35
8 it had value, whether the ledger was 10:59:45	8 the consideration, the time the transaction 11:02:39
9 centralized or decentralized, for example, 10:59:47	9 took place is all that you would need. 11:02:41
10 but none of that had any bearing on my 10:59:51	10 Q. So you need information contained in the 11:02:43
11 opinions. 10:59:53	11 contract to perform that calculation, 11:02:52
12 Q. So whether XRP has utility or not have any 10:59:54	12 correct? 11:02:55
13 bearing on your opinion? 11:00:05	13 MR. SPEAR: Objection. 11:02:55
14 MR. SPEAR: Objection, scope. 11:00:06	14 A. No, just the standard facts and details 11:02:57
15 A. Well, my opinion as spelled out in this 11:00:07	15 that describe any transaction, the same 11:02:59
16 report is that there's a common method for 11:00:10	16 common information that would commonly be 11:03:01
17 computing damages for all class members. 11:00:14	supplied by any class member for purposes 11:03:04
18 The common method is consistent with 11:00:19	18 of calculating that class member's damages. 11:03:07
19 plaintiff's theory of liability, and I lay 11:00:22	19 Q. Could the contract, though, supply, for 11:03:10
20 out what that method is. That is really 11:00:27	20 example, the price? 11:03:12
21 what I wrote about in this report, and so 11:00:33	21 A. Like I said, price would need to be known. 11:03:15
22 specific idiosyncracies of XRP versus 11:00:37	22 In any damage calculation in any class action 11:03:18
23 other crypto digital assets did not matter. 11:00:41	23 litigation, you need to know prices. 11:03:21
24 As I sit here now, that's my thinking. 11:00:46	24 Sometimes you my understanding is that 11:03:26
25 Q. Sitting here today, do you have an 11:00:49	25 prices, price data for a claimant's 11:03:31
Page 50	Page 52
1 understanding as to whether a use of XRP 11:00:58	1 transactions is supplied by the claimant 11:03:36
2 could impact calculation of profit or 11:01:06	2 to the claims administrator, and whether 11:03:38
3 loss made by someone who owns it? 11:01:11	3 that price is documented in an exchange or 11:03:42
4 A. Well, it could certainly impact the profit 11:01:16	4 brokerage confirmation versus some other 11:03:48
5 or loss that was realized, but it would 11:01:18	5 form doesn't matter for purposes of applying 11:03:52
6 not impact the formula used for calculating 11:01:20	6 the formula. 11:03:57
7 the profit or loss and the damages. 11:01:23	7 Q. So it sounds like you have in mind a claims 11:03:58
8 Q. Sitting here today, do you know whether 11:01:26	8 process where the claimant would come forward 11:04:11
9 XRP is traded pursuant to any bilateral 11:01:32	9 with the inputs needed to, certain to your 11:04:14
10 contracts? 11:01:40	methodology, to your formula to determine 11:04:19
11 MR. SPEAR: Objection to form. 11:01:41	11 profit or loss, is that correct? 11:04:23
12 A. What do you mean by "bilateral contracts"? 11:01:42	12 A. That's typically how damages are ultimately 11:04:26
13 Q. A contract between two parties to buy or 11:01:47	13 calculated in a class action securities case. 11:04:28
14 sell an asset. 11:01:49	14 Q. So turning to Exhibit 10 here, your report, 11:04:38
15 A. Some trading took place that way, is my 11:01:50	15 I'd refer you to Page 4, you express your 11:04:50
16 understanding. 11:01:54	16 conclusion which is I think what you're 11:04:54
17 Q. So you are aware that some XRP exchanged 11:01:54	17 referring to, you opine here on Paragraph 16, 11:04:58
18 hands pursuant to bilateral contracts? 11:01:59	18 Page 4, the damages can be computed using 11:05:03
19 A. Well, we usually call that in finance an 11:02:03	19 a common methodology for all class members 11:05:11
20 over-the-counter transaction, and my 11:02:05	20 and the common classwide methodology for 11:05:16
21 understanding is there were some 11:02:07	21 determining damages for all XRP purchasers 11:05:21
22 over-the-counter transactions. 11:02:09	22 involves the straightforward application of 11:05:26
23 Q. Where XRP is exchanged pursuant to an 11:02:12	23 statutory arithmetic formulas? 11:05:30
24 over-the-counter transaction, can profit or 11:02:19	24 A. Yes. 11:05:34
25 loss be calculated pursuant to a common 11:02:20 Page 51	25 Q. Sir, are you opining you're opining that 11:05:35 Page 53
1 age 31	1 age 33

1 damages can be computed using a common 11:05:47	l I
	1 interest rate should be applied. 11:08:42
2 methodology, correct? 11:05:51	2 Q. Anything else? 11:08:44
3 A. Yes. 11:05:51	3 A. The formula is on Page 5. Those are the 11:08:50
4 Q. Are you opining that they can be computed 11:05:52	4 arguments of the formula that we just 11:08:50
5 using common evidence? 11:05:56	5 covered, so no. 11:08:56
6 A. I think "evidence" has a specific legal 11:05:58	6 Q. You mentioned that you need information as 11:08:56
7 meaning, and I'm not a lawyer. So if you 11:06:00	7 to whether there had been a sale. What did 11:08:59
8 mean data, that the same data, the same 11:06:05	8 you mean by that? 11:09:02
9 type of data is needed from each claimant, 11:06:11	9 A. Well, you would need to know. I mean, the 11:09:02
10 that's true, the same type of data, and I 11:06:13	10 class members are people who purchased and 11:09:04
mentioned already what that data would be. 11:06:17	11 then sold XRP and sustained a loss. These 11:09:08
12 "Evidence" is a legal term, that I can answer 11:06:20	12 are the proposed class members, or those 11:09:12
13 the question if you explain it better. 11:06:22	13 who still own XRP, they purchased it and 11:09:16
14 Q. Got it. Well, I guess what I'm hearing you 11:06:24	14 still own it. So notice that Paragraph 19 11:09:19
say is that the claimant would need to come 11:06:28	15 has a formula for one and 20 has got the 11:09:23
16 forth with the information concerning their 11:06:30	16 adaptation of that same formula for the 11:09:28
purchase or sale in order for the calculation 11:06:32	17 other, so you need to know whether they 11:09:30
18 to be run? 11:06:36	18 still own XRP or not. 11:09:32
19 A. That's one way to do it. There are other 11:06:37	19 Q. I see. So the information as to whether 11:09:33
20 ways to calculate damages, but to apply the 11:06:39	20 there has been a sale is important to know 11:09:40
21 common formula that's in my report, one would 11:06:42	21 which, whether they're in Paragraphs 19 or 11:09:43
22 need price and quantity data for purchases 11:06:45	22 20? 11:09:45
23 and sales, if there was a sale for anybody 11:06:50	23 A. Right. 11:09:48
24 whose damages are going to be calculated, 11:06:56	24 Q. Okay. And then you said you would need to 11:09:48
25 so it's common data and it's common formulas 11:06:59	25 know the form of consideration paid. What 11:09:50
Page 54	Page 56
1 that are used. 11:07:03	1 did you mean by that? 11:09:52
2 Q. So you need the price data and you need 11:07:03	2 A. Was Bitcoin tendered for the XRP or was 11:09:53
3 the quantity data? 11:07:10	3 it Tether or U.S. dollars, and you need to 11:10:01
4 A. Right, how much did the person pay and 11:07:11	4 know that so that you can translate the 11:10:03
5 when did they pay it and how much XRP did 11:07:15	5 consideration, you can value the 11:10:04
6 they receive, and the same thing on the 11:07:21	
o and receive, and the same timing on the 11.07.21	6 consideration at the time of the 11:10:06
7 sale, if there was a sale, or we would need 11:07:24	
	6 consideration at the time of the 11:10:06
7 sale, if there was a sale, or we would need 11:07:24	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07
7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08
7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17
7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34 10 price data and quantity data? 11:07:38	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22
7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34 10 price data and quantity data? 11:07:38 11 A. I said price data, price, quantity, both at 11:07:40	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25
7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34 10 price data and quantity data? 11:07:38 11 A. I said price data, price, quantity, both at 11:07:40 12 the time of sale and the time, time of 11:07:45	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25 12 A. It would be the value of the Bitcoin paid. 11:10:27
7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34 10 price data and quantity data? 11:07:38 11 A. I said price data, price, quantity, both at 11:07:40 12 the time of sale and the time, time of 11:07:45 13 purchase and time of sale information as to 11:07:47	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25 12 A. It would be the value of the Bitcoin paid. 11:10:27 13 Q. Why not just the so the value of the 11:10:29
7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34 10 price data and quantity data? 11:07:38 11 A. I said price data, price, quantity, both at 11:07:40 12 the time of sale and the time, time of 11:07:45 13 purchase and time of sale information as to 11:07:47 14 whether or not there was a sale because 11:07:50	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25 12 A. It would be the value of the Bitcoin paid. 11:10:27 13 Q. Why not just the so the value of the 11:10:29 14 Bitcoin? 11:10:32
7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34 10 price data and quantity data? 11:07:38 11 A. I said price data, price, quantity, both at 11:07:40 12 the time of sale and the time, time of 11:07:45 13 purchase and time of sale information as to 11:07:47 14 whether or not there was a sale because 11:07:50 15 there may not have been, the form of the 11:07:53	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25 12 A. It would be the value of the Bitcoin paid. 11:10:27 13 Q. Why not just the so the value of the 11:10:29 14 Bitcoin? 11:10:32 15 A. The formula, the statute says consideration 11:10:34
7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34 10 price data and quantity data? 11:07:38 11 A. I said price data, price, quantity, both at 11:07:40 12 the time of sale and the time, time of 11:07:45 13 purchase and time of sale information as to 11:07:47 14 whether or not there was a sale because 11:07:50 15 there may not have been, the form of the 11:07:53 16 consideration paid. That's it. Wait. 11:07:57	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25 12 A. It would be the value of the Bitcoin paid. 11:10:27 13 Q. Why not just the so the value of the 11:10:29 14 Bitcoin? 11:10:32 15 A. The formula, the statute says consideration 11:10:34 16 with interest thereon. The word 11:10:37
sale, if there was a sale, or we would need 11:07:24  8 to know that there was no sale. 11:07:32  9 Q. Is any other data needed aside from the 11:07:34  10 price data and quantity data? 11:07:38  11 A. I said price data, price, quantity, both at 11:07:40  12 the time of sale and the time, time of 11:07:45  13 purchase and time of sale information as to 11:07:47  14 whether or not there was a sale because 11:07:50  15 there may not have been, the form of the 11:07:53  16 consideration paid. That's it. Wait. 11:07:57  17 Right, that's it. That's what's in the 11:08:09	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25 12 A. It would be the value of the Bitcoin paid. 11:10:27 13 Q. Why not just the so the value of the 11:10:29 14 Bitcoin? 11:10:32 15 A. The formula, the statute says consideration 11:10:34 16 with interest thereon. The word 11:10:37 17 "consideration" I guess can either mean 11:10:42
7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34 10 price data and quantity data? 11:07:38 11 A. I said price data, price, quantity, both at 11:07:40 12 the time of sale and the time, time of 11:07:45 13 purchase and time of sale information as to 11:07:47 14 whether or not there was a sale because 11:07:50 15 there may not have been, the form of the 11:07:53 16 consideration paid. That's it. Wait. 11:07:57 17 Right, that's it. That's what's in the 11:08:09 18 formula. 11:08:11	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25 12 A. It would be the value of the Bitcoin paid. 11:10:27 13 Q. Why not just the so the value of the 11:10:29 14 Bitcoin? 11:10:32 15 A. The formula, the statute says consideration 11:10:34 16 with interest thereon. The word 11:10:37 17 "consideration" I guess can either mean 11:10:42 18 the form of the consideration or the value 11:10:45
7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34 10 price data and quantity data? 11:07:38 11 A. I said price data, price, quantity, both at 11:07:40 12 the time of sale and the time, time of 11:07:45 13 purchase and time of sale information as to 11:07:47 14 whether or not there was a sale because 11:07:50 15 there may not have been, the form of the 11:07:53 16 consideration paid. That's it. Wait. 11:07:57 17 Right, that's it. That's what's in the 11:08:09 18 formula. 11:08:11	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25 12 A. It would be the value of the Bitcoin paid. 11:10:27 13 Q. Why not just the so the value of the 11:10:29 14 Bitcoin? 11:10:32 15 A. The formula, the statute says consideration 11:10:34 16 with interest thereon. The word 11:10:37 17 "consideration" I guess can either mean 11:10:42 18 the form of the consideration or the value 11:10:45 19 of the consideration, and I think from the 11:10:46
sale, if there was a sale, or we would need 11:07:24  8 to know that there was no sale. 11:07:32  9 Q. Is any other data needed aside from the 11:07:34  10 price data and quantity data? 11:07:38  11 A. I said price data, price, quantity, both at 11:07:40  12 the time of sale and the time, time of 11:07:45  13 purchase and time of sale information as to 11:07:47  14 whether or not there was a sale because 11:07:50  15 there may not have been, the form of the 11:07:53  16 consideration paid. That's it. Wait. 11:07:57  17 Right, that's it. That's what's in the 11:08:09  18 formula. 11:08:11  19 Again, if there was the example 11:08:13  20 I gave in the interrogatory did not apply 11:08:18	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25 12 A. It would be the value of the Bitcoin paid. 11:10:27 13 Q. Why not just the so the value of the 11:10:29 14 Bitcoin? 11:10:32 15 A. The formula, the statute says consideration 11:10:34 16 with interest thereon. The word 11:10:37 17 "consideration" I guess can either mean 11:10:42 18 the form of the consideration or the value 11:10:45 19 of the consideration, and I think from the 11:10:47
7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34 10 price data and quantity data? 11:07:38 11 A. I said price data, price, quantity, both at 11:07:40 12 the time of sale and the time, time of 11:07:45 13 purchase and time of sale information as to 11:07:47 14 whether or not there was a sale because 11:07:50 15 there may not have been, the form of the 11:07:53 16 consideration paid. That's it. Wait. 11:07:57 17 Right, that's it. That's what's in the 11:08:09 18 formula. 11:08:11 19 Again, if there was the example 11:08:13 20 I gave in the interrogatory did not apply 11:08:18 21 interest that could have been earned, the 11:08:25	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25 12 A. It would be the value of the Bitcoin paid. 11:10:27 13 Q. Why not just the so the value of the 11:10:29 14 Bitcoin? 11:10:32 15 A. The formula, the statute says consideration 11:10:34 16 with interest thereon. The word 11:10:37 17 "consideration" I guess can either mean 11:10:42 18 the form of the consideration or the value 11:10:45 19 of the consideration, and I think from the 11:10:46 20 context it's pretty clear that it's the 11:10:47 21 value of the consideration, so that would 11:10:50
7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34 10 price data and quantity data? 11:07:38 11 A. I said price data, price, quantity, both at 11:07:40 12 the time of sale and the time, time of 11:07:45 13 purchase and time of sale information as to 11:07:47 14 whether or not there was a sale because 11:07:50 15 there may not have been, the form of the 11:07:53 16 consideration paid. That's it. Wait. 11:07:57 17 Right, that's it. That's what's in the 11:08:09 18 formula. 11:08:11 19 Again, if there was the example 11:08:13 20 I gave in the interrogatory did not apply 11:08:18 21 interest that could have been earned, the 11:08:25 22 opportunity interest on the consideration, 11:08:27	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25 12 A. It would be the value of the Bitcoin paid. 11:10:27 13 Q. Why not just the so the value of the 11:10:29 14 Bitcoin? 11:10:32 15 A. The formula, the statute says consideration 11:10:34 16 with interest thereon. The word 11:10:37 17 "consideration" I guess can either mean 11:10:42 18 the form of the consideration or the value 11:10:45 19 of the consideration, and I think from the 11:10:47 20 context it's pretty clear that it's the 11:10:47 21 value of the consideration, so that would 11:10:50 22 be dollars, how many dollars were those 11:10:52
7 sale, if there was a sale, or we would need 11:07:24 8 to know that there was no sale. 11:07:32 9 Q. Is any other data needed aside from the 11:07:34 10 price data and quantity data? 11:07:38 11 A. I said price data, price, quantity, both at 11:07:40 12 the time of sale and the time, time of 11:07:45 13 purchase and time of sale information as to 11:07:47 14 whether or not there was a sale because 11:07:50 15 there may not have been, the form of the 11:07:53 16 consideration paid. That's it. Wait. 11:07:57 17 Right, that's it. That's what's in the 11:08:09 18 formula. 11:08:11 19 Again, if there was the example 11:08:13 20 I gave in the interrogatory did not apply 11:08:18 21 interest that could have been earned, the 11:08:25 22 opportunity interest on the consideration, 11:08:27 23 but if one were to include the interest, you 11:08:31	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25 12 A. It would be the value of the Bitcoin paid. 11:10:27 13 Q. Why not just the so the value of the 11:10:29 14 Bitcoin? 11:10:32 15 A. The formula, the statute says consideration 11:10:34 16 with interest thereon. The word 11:10:37 17 "consideration" I guess can either mean 11:10:42 18 the form of the consideration or the value 11:10:45 19 of the consideration, and I think from the 11:10:46 20 context it's pretty clear that it's the 11:10:47 21 value of the consideration, so that would 11:10:50 22 be dollars, how many dollars were those 11:10:52 23 Bitcoin worth at the time the XRP was 11:10:54
sale, if there was a sale, or we would need 11:07:24 to know that there was no sale. 11:07:32  Q. Is any other data needed aside from the 11:07:34  price data and quantity data? 11:07:38  11 A. I said price data, price, quantity, both at 11:07:40  12 the time of sale and the time, time of 11:07:45  13 purchase and time of sale information as to 11:07:47  4 whether or not there was a sale because 11:07:50  15 there may not have been, the form of the 11:07:53  16 consideration paid. That's it. Wait. 11:07:57  17 Right, that's it. That's what's in the 11:08:09  18 formula. 11:08:11  19 Again, if there was the example 11:08:13  20 I gave in the interrogatory did not apply 11:08:18  21 interest that could have been earned, the 11:08:25  22 opportunity interest on the consideration, 11:08:27  23 but if one were to include the interest, you 11:08:34	6 consideration at the time of the 11:10:06 7 transactions. 11:10:07 8 Q. If someone paid Bitcoin, used Bitcoin to 11:10:08 9 purchase XRP, wouldn't the value of the 11:10:17 10 consideration paid be the amount of Bitcoin 11:10:22 11 they paid for the XRP? 11:10:25 12 A. It would be the value of the Bitcoin paid. 11:10:27 13 Q. Why not just the so the value of the 11:10:29 14 Bitcoin? 11:10:32 15 A. The formula, the statute says consideration 11:10:34 16 with interest thereon. The word 11:10:37 17 "consideration" I guess can either mean 11:10:42 18 the form of the consideration or the value 11:10:45 19 of the consideration, and I think from the 11:10:46 20 context it's pretty clear that it's the 11:10:47 21 value of the consideration, so that would 11:10:50 22 be dollars, how many dollars were those 11:10:52 23 Bitcoin worth at the time the XRP was 11:10:54 24 purchased. 11:10:57

## Case 4:18-cv-06753-PJH Document 243-4 Filed 04/19/23 Page 17 of 80

4 express that your opinion here relates to a 11 5 common classwide methodology for determining	2 11:07 3	2 a 3 A.	person who obtained XRP tangible good? Yes.  Just to be clear on the scop	11:14:19 11:14:20	
3 Going back to Paragraph 16, you 11: 4 express that your opinion here relates to a 11: 5 common classwide methodology for determining	11:07	3 A.	Yes.		<b>)</b>
4 express that your opinion here relates to a 11 common classwide methodology for determining				11:14:20	
5 common classwide methodology for determining	1:11:12   4				1 1 4 20
	11 11 16	_	•	•	1:14:20
	-		opinion, it sounds like it is r	_	:14:35
	11:11:18 6		he scope of your opinion w		11:14:41
7 it mean to purchase XRP? 11:11:			s not a purchaser of XRP?		4:43
,	1:11:28		That's correct.	11:14:48	
1 1 1	1:11:32	_	So you're not opining on w		11:14:48
pay a counterparty and receive XRP, quid pro	11:11:37	) a	purchaser of XRP, correct	? 11:	14:54
	11:44		Correct.	11:14:56	
12 Q. So if you receive XRP as a gift, are you a	11:11:51   12	2 Q.	Does your opinion encomp	bass the	11:14:56
13 purchaser of XRP? 11:11:59		3 io	dentification of people who	are purchasers	11:15:01
14 MR. SPEAR: Objection, calls for a 11	:12:00	4 o	of XRP?	11:15:05	
15 legal conclusion. 11:12:01	15	5 A.	How is that different from	the previous	11:15:06
16 A. I would have to say I don't know. That's a	11:12:03	5 q	question?	11:15:09	
17 legal determination. 11:12:06	17	7 Q.	The first question is more	of a conceptual	11:15:10
18 Q. Can your methodology apply to individuals	11:12:07 18	3 q	question of like categoricall	y speaking,	11:15:15
19 who obtained XRP via gift? 11:12	2:11 19	) w	who would count or not in t	he determination	11:15:18
20 A. I'm not sure. That's something I would have	11:12:22 20	) o	of who is a purchaser of XR	P. The second	11:15:20
21 to think about. 11:12:25	21	l is	s actually like identifying the	he class 11:	15:21
22 Q. Do you have any understanding as to whether	11:12:26 22	2 n	members.	11:15:23	
23 Ripple has employees? 11:12:2	28 23	3 A.	No. I haven't been asked to	o identify class	11:15:24
24 A. I'm sure they do have employees. 11	:12:32 24	1 n	nembers and nothing about	that is expressed	11:15:26
25 Q. To the extent a Ripple employee receives	11:12:34 25	5 ir	n my report.	11:15:28	
	Page 58				Page 6
1	11:12:37		Okay. Does your opinion		11:15:29
2 they a purchaser of XRP? 11:12:	243		correlation between XRP ar	nd any other	11:15:35
, ·	:12:45 3		ligital asset?	11:15:37	
4 a legal conclusion. 11:12:46	4	4 A.	What do you mean by "cor	relation"?	11:15:39
5 A. Again, that does sound like the answer 1	11:12:47 5	5 Q.	Whether the price or value	of XRP is	11:15:41
6 to that question must be covered somewhere	11:12:50 6	5 c	correlated with movements	in prices of	11:15:44
7 in the law, and I'm not a lawyer. I can 11:1	12:53	7 о	other digital assets.	11:15:46	
8 answer economic questions. I don't think 1	1:12:57 8	3 A.	I have expressed that to ap	ply the formula,	11:15:48
9 that is an economic question, so I think 11:	:13:00 9	Э о	one should convert whateve	er the form of	11:15:53
10 I should just say I don't know for sure. 11:1	13:03	) th	he consideration was to the	value of the	11:15:57
11 I don't want to say, give an answer that's 11:	:13:04	l c	consideration. So exchange	rates and	11:15:59
12 contrary to established law, case law or 11:	:13:06	2 v	valuations are relevant to ap	oply the common	11:16:04
13 statute. I think the case law and statute 11:1	13:10	3 n	nethodology commonly for	all class membe	rs, 11:16:09
14 should speak for itself and legal experts 11:	:13:12	4 b	out correlation usually mean	ns movement	11:16:12
15 can decide that. 11:13:14	15	5 o	over time, and that I haven't	expressed 1	1:16:15
16 Q. Can the common methodology that you propo	ose 11:13:15 16	5 a:	anything about movement o	ver time.	11:16:18
in your opinion be applied to those who	1:13:20 17		Okay. Yes, that's what I w		11:16:20
18 acquire XRP as compensation for their work?	11:13:24 18	3 w	whether the price of XRP co	orrelates over	11:16:24
19 A. I think it can. 11:13:28	19		ime with the price of digita		1:16:27
20 Q. Do you have an understanding as to whether	11:13:31 20		comething that's the subject		11:16:31
- •	1:13:46 21		correct?	11:16:32	
21 someone could sell a tangible good like a 1	1 ==	_			
8 8	:13:51 22	2 A.	Say that again, please?	11:16	0:33
cup of coffee in exchange for XRP?	:13:51 22		Say that again, please?  It's fair to say that your oping the say that again, please?	11:16 inion does not	
22 cup of coffee in exchange for XRP? 11 23 A. I think that's possible. 11:13:56	23	3 Q.	It's fair to say that your opi	inion does not	11:16:35
22 cup of coffee in exchange for XRP? 11 23 A. I think that's possible. 11:13:56 24 Q. Can your common methodology be used to		3 Q. 1		inion does not e of XRP correla	11:16:35

1 over time? 11:16:46	1 out that if there's a determination that 11:19:45
2 A. Right, I express no opinion about that 11:16:47	2 one doesn't need to translate the form 11:19:47
3 specifically. 11:16:50	3 of the consideration to the value of that 11:19:50
4 Q. Does your opinion encompass whether the 11:16:51	4 consideration in dollars, then that 11:19:51
5 price or value of XRP might vary across 11:17:01	5 methodology would also be common to all 11:19:53
6 exchanges at any given point in time? 11:17:08	6 class members. I just want to point out 11:19:55
7 A. I considered that. I believe given that, 11:17:13	7 that regardless of whether one does the 11:19:58
8 though that may be the case, these formulas, 11:17:19	8 translation or chooses not to do the 11:20:00
9 data exists such that these formulas can 11:17:23	9 translation, the methodology that's arrived 11:20:02
10 still be applied commonly for all class 11:17:27	10 at from making that determination will be 11:20:04
11 members. 11:17:29	11 common for all class remembers. I think 11:20:07
12 Q. So you agree it may be the case, that the 11:17:30	12 that's paramount and primary. 11:20:09
13 price of XRP varies at a given point in 11:17:35	However, if the methodology is to 11:20:12
14 time across exchanges? 11:17:38	14 translate forms of consideration to value 11:20:17
15 A. That may be the case, yes. 11:17:41	15 consideration in dollars, then you need 11:20:21
16 Q. And do you also agree that the price of, 11:17:42	16 exchange rates and Bloomberg provides them. 11:20:23
17 say, Bitcoin at a given point in time might 11:17:46	17 Q. To be clear, the methodology that you are 11:20:31
18 vary across exchanges? 11:17:49	putting forth in your opinion involves the 11:20:37
19 A. There seems to be evidence of that in the 11:17:52	19 conversion of consideration paid into U.S. 11:20:40
20 literature in the market, yes. It does 11:17:56	20 dollars? 11:20:44
21 not preclude calculation of damages commonly 11:17:58	21 A. My conclusion in Paragraph 16 is that the 11:20:45
22 for all class members. 11:18:04	22 methodology is common, and that conclusion 11:20:48
23 Q. You referred to evidence in the literature 11:18:05	23 holds firm whether we choose to translate 11:20:54
24 about price variation of Bitcoin across 11:18:09	24 the consideration into dollar value or 11:20:57
25 exchanges. What were you referring to? 11:18:12 Page 62	25 choose not to translate the form of the 11:21:01 Page 64
1 A. I can't cite an article specifically, but 11:18:15	1 consideration to dollar value. So it's 11:21:04
2 this is an observation that's been made. 11:18:18	2 still, the conclusion that I represent 11:21:06
3 Q. Sitting here today, do you have a sense 11:18:21	3 in Paragraph 16 holds regardless. The 11:21:12
4 of how large or small that variation might 11:18:23	4 examples I gave in Paragraphs 19 and 20, 11:21:16
5 be? 11:18:29	5 these examples do translate consideration 11:21:16
6 A. No, but I did check Bloomberg and the 11:18:29	6 form into consideration value, and for that 11:21:19
7 documentation in Bloomberg that they've 11:18:36	you need exchange rates, and I verified 11:21:21
8 arrived at analytics and a methodology for 11:18:38	8 that exchange rates are available. 11:21:26
9 producing data that according to Bloomberg 11:18:4:	8
represents the value of digital assets at 11:18:47	of your report, you put forward formulas for 11:21:37
various points in time, notwithstanding 11:18:49	11 calculating damages, correct? 11:21:40
that the trading price might be different on 11:18:52	12 A. Yes. 11:21:44
one exchange versus another. 11:18:55	13 Q. But what I hear you saying is these are 11:21:44
14 Q. Is this Bloomberg data to which you're 11:18:59	just examples of formulas that might be used, 11:21:49
referring something that you would use in 11:19:07	but there are other competing formulas that 11:21:52
16 the computation of gain or loss pursuant 11:19:10	might also be used to calculate damages. Is 11:21:54
17 to your methodology? 11:19:12	that a fair summary of your testimony? 11:21:57
18 A. You can. 11:19:14	18 MR. SPEAR: Objection. 11:21:58
19 Q. You referenced you needed to translate the 11:19:18	
20 consideration paid into U.S. dollars. So, 11:19:23	20 that should be used. I do understand that 11:22:03
21 for example, if someone bought XRP with 11:19:2	
22 Bitcoin, you need to translate, under your 11:19:29	22 that's very similar, there may be a 11:22:09
23 methodology, the value of that Bitcoin into 11:19:33	23 determination that that other similar formula 11:22:12
24 U.S. dollars, correct? 11:19:36	24 is more appropriate, and I'm pointing out 11:22:15
25 A. Well, first of all, I just want to point 11:19:38	25 that even if it were not these formulas but 11:22:19
Page 63	Page 65

## Case 4:18-cv-06753-PJH Document 243-4 Filed 04/19/23 Page 19 of 80

1 the very similar alternative formula, it 11:22:22	1 better model does involve converting the 11:24:43
2 would still be a common damage methodology 11:22:25	2 consideration into U.S. dollars, but you 11:24:49
3 for all class members. 11:22:28	3 have not yet opined on how that conversion 11:24:51
4 I do believe these are the correct 11:22:29	4 would be performed? 11:24:56
5 formulas and these are the formulas that 11:22:31	5 A. No, that's not true at all. It's the same 11:24:56
6 ought to be used, but I just want to point 11:22:33	6 model, how much you paid for XRP versus 11:25:03
7 out that my opinion in Paragraph 16 is 11:22:35	7 how much you got back when you sold your 11:25:06
8 maintained even if one were to modify this 11:22:37	8 XRP. If you got back less than you paid, 11:25:08
9 formula slightly in the way we've been 11:22:40	9 that's a loss, and how it's translated into 11:25:11
10 describing. 11:22:43	dollars, there's a slight tweak, there's 11:25:16
11 Q. You say a common methodology can be used 11:22:44	11 different ways of doing that. 11:25:19
to calculate damages, but what that 11:22:46	12 I think the best way to do it is 11:25:20
methodology is could take different forms? 11:22:48	to do the translation at the time of the 11:25:22
14 A. Well, two that I can think of that we've 11:22:51	14 transactions. I believe that's consistent 11:25:24
15 talked about, they're very similar, I believe 11:22:54	15 with the statute, the language in the 11:25:26
16 of those two, the formulas in Paragraphs 19 11:22:59	16 statute, and I verified that there are 11:25:29
17 and 20 are the correct ones. 11:23:02	17 databases that allow one to do that. In 11:25:33
18 Q. Okay. When you say we've talked about two, 11:23:04	18 fact, I provided defendants with an example 11:25:35
19 you're referring to one formula that would 11:23:07	19 of that calculation done. But at this point, 11:25:40
20 involve translating consideration paid into 11:23:09	20 I'm saying that I haven't yet calculated 11:25:42
21 U.S. dollars, that's one method. A different 11:23:14	21 damages for the entire class or for members 11:25:45
22 method would be leaving the consideration 11:23:19	22 of the class beyond Mr. Sostack, and it's 11:25:51
paid in whatever form it was paid, whether 11:23:21	23 altogether possible that exactly which 11:25:54
24 that be Bitcoin, Tether or Ethereum? 11:23:25	24 exchange rates to use, that's what I want to 11:25:59
25 A. Correct. 11:23:29	25 focus on, exactly which database for the 11:26:02
Page 66	Page 68
1 Q. In then in your model, the one that you're 11:23:29	1 exchange rates is not something that I 11:26:05
2 proposing in Paragraphs 19 and 20, there's 11:23:34	2 was asked to opine about or need to opine 11:26:11
3 this conversion into U.S. dollars, correct? 11:23:36	3 about in order to proffer the opinion that 11:26:14
4 A. Well, in order to calculate consideration, 11:23:39	4 it's a common damage methodology for all 11:26:17
5 one would convert the form of the 11:23:43	5 class members. 11:26:19
6 consideration to that dollar value of the 11:23:45	6 Q. So I have a bunch of questions about these 11:26:20
7 consideration. 11:23:47	7 exchange rates. Does the scope of your 11:26:29
8 Q. What is your proposal for what exchange 11:23:48	8 opinion include what exchange rate would be 11:26:34
9 rates would be used to translate, for 11:23:53	9 used to translate consideration paid into 11:26:39
10 example, Bitcoin or Ethereum into U.S. 11:23:56	10 U.S. dollars? 11:26:43
11 dollars? 11:23:58	11 A. No, it doesn't need to. We know that 11:26:45
12 A. What I check is that we have Bloomberg, 11:23:59	12 exchange rates exist. The choice of the 11:26:48
13 Bloomberg is a good source, it's 11:24:03	13 best, most appropriate, most reliable 11:26:53
14 reputable, but at this point I don't think 11:24:04	14 exchange rate data doesn't impact or 11:26:56
15 I have to I just want to reserve the 11:24:08	15 doesn't affect the opinion that it's a 11:27:03
option to consider it further. That's not 11:24:16	16 common damage methodology for all class 11:27:06
part of my opinion right now, which is the 11:24:18	17 members which is the opinion I'm offering 11:27:08
best data source to use. If I were to do 11:24:20	18 today and in this report. 11:27:10
19 damages, I might at a later date decide that 11:24:23	19 Q. You could imagine two different purchasers 11:27:11
20 there was a better data source. I know 11:24:26	20 of XRP, one who had just before buying XRP 11:27:14
21 that for sure there's at least Bloomberg, 11:24:28	21 converted U.S. dollars to Bitcoin and then 11:27:20
but my opinion at this point does not 11:24:31	22 used that Bitcoin to buy XRP. You can 11:27:24
23 encompass a determination that Bloomberg is 11:24:33	23 imagine another purchaser of XRP who had 11:27:26
24 the only or best data source to use. 11:24:35	24 just Bitcoin holdings in their Coinbase 11:27:29
25 Q. So you think that the preferred model, the 11:24:38	25 account, for example, had been holding the 11:27:32
Page 67	Page 69

## Case 4:18-cv-06753-PJH Document 243-4 Filed 04/19/23 Page 20 of 80

1 Bitcoin for some period of time and they 11:27:34	1 witness' testimony. 11:30:03
2 used that Bitcoin to purchase XRP. What 11:27:36	2 A. I'm saying that that's within the realm 11:30:04
3 exchange rate would you propose is the 11:27:47	3 of possibility. It would still be a common 11:30:07
4 best exchange rate in each of those two 11:27:49	4 methodology. Personally, I think the best 11:30:09
5 scenarios? 11:27:51	5 methodology would be to use the value of 11:30:12
6 MR. SPEAR: Objection, scope. 11:27:52	6 the Bitcoin at the time of the transaction 11:30:15
7 A. As an economist, I think the best exchange 11:27:53	7 according to a reputable database. But 11:30:17
8 rate is the exchange rate at the time of 11:27:58	8 if there's some legal determination that 11:30:22
9 the transactions, although if there's a 11:28:00	9 overrides the economic analysis, what one 11:30:24
lo legal opinion that says no, it should be, 11:28:02	10 is left with still is a common methodology 11:30:29
1 consideration should be left in the form 11:28:07	11 for all class members. 11:30:31
2 until settlement or jury verdict, then you 11:28:09	12 Q. So what you personally think would be the 11:30:33
would use the exchange rates of the later 11:28:13	13 best methodology is the value of Bitcoin 11:30:35
4 date. 11:28:15	at the time of the transaction as determined 11:30:37
5 So as an economist, I have an 11:28:16	by a reputable database, and you have 11:30:42
6 opinion which is the best, which represents 11:28:17	16 Bloomberg in mind for that? 11:30:47
7 damages and I actually think that's most 11:28:21	17 A. Bloomberg is a reputable database. I haven't 11:30:48
8 consistent with the statute, language in the 11:28:23	18 yet determined whether it's the only or the 11:30:53
9 statute, but it doesn't change my opinion 11:28:26	19 best, but it's certainly available for this 11:30:54
0 about there being a common damage methodology 11:28:28	20 purpose. 11:30:56
if the law or the court or the parties agree 11:28:31	21 Q. Would you agree that if that were the 11:30:56
2 on a different time to do the translation. 11:28:34	22 methodology that were used, that the 11:30:58
3 Q. For the first of the two hypothetical 11:28:39	23 calculation of an individual purchaser's 11:31:00
4 purchasers that I mentioned who had 11:28:42	24 gain or loss might differ from their sort 11:31:01
transferred U.S. dollars into Bitcoin just 11:28:46	25 of real-world experience because, for 11:31:04
Page 70	Page '
before the transaction and then used the 11:28:49	1 example, they just acquired that Bitcoin 11:31:06
2 Bitcoin immediately to buy XRP, would 11:28:52	2 with dollars that cost them a little more or 11:31:09
3 the actual exchange rate that that person 11:28:58	
ine detail energinge rate that that person 11120100	3 less than what Bloomberg might say was the 11:31:11
	3 less than what Bloomberg might say was the 11:31:11 4 exchange rate at the time? 11:31:15
4 obtained transferring U.S. dollars into 11:29:00	
4 obtained transferring U.S. dollars into 11:29:00 5 Bitcoin be the right to use or more of like 11:29:05	4 exchange rate at the time? 11:31:15
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07	4 exchange rate at the time? 11:31:15 5 MR. SPEAR: Objection to form. 11:31:15
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07	4 exchange rate at the time? 11:31:15 5 MR. SPEAR: Objection to form. 11:31:15 6 Objection to scope. 11:31:16
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07 MR. SPEAR: Objection, scope. Go 11:29:10	4 exchange rate at the time? 11:31:15 5 MR. SPEAR: Objection to form. 11:31:15 6 Objection to scope. 11:31:16 7 A. If you've got different alternatives, the 11:31:18
4 obtained transferring U.S. dollars into 11:29:00 5 Bitcoin be the right to use or more of like 11:29:05 6 a general Bloomberg rate? 11:29:07 7 MR. SPEAR: Objection, scope. Go 11:29:10 8 ahead. 11:29:14 9 A. It's a hypothetical you're asking about. 11:29:14	4 exchange rate at the time? 11:31:15 5 MR. SPEAR: Objection to form. 11:31:15 6 Objection to scope. 11:31:16 7 A. If you've got different alternatives, the 11:31:18 8 outcome of the different alternatives might 11:31:26
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07 MR. SPEAR: Objection, scope. Go 11:29:10 ahead. 11:29:14 A. It's a hypothetical you're asking about. 11:29:14 I'm sure there are details of this 11:29:17	4 exchange rate at the time? 11:31:15 5 MR. SPEAR: Objection to form. 11:31:15 6 Objection to scope. 11:31:16 7 A. If you've got different alternatives, the 11:31:18 8 outcome of the different alternatives might 11:31:26 9 be different. In the hypothetical you 11:31:29
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07 MR. SPEAR: Objection, scope. Go 11:29:10 ahead. 11:29:14 A. It's a hypothetical you're asking about. 11:29:14 I'm sure there are details of this 11:29:17 hypothetical that are not explicated in 11:29:19	4 exchange rate at the time? 11:31:15 5 MR. SPEAR: Objection to form. 11:31:15 6 Objection to scope. 11:31:16 7 A. If you've got different alternatives, the 11:31:18 8 outcome of the different alternatives might 11:31:26 9 be different. In the hypothetical you 11:31:29 10 gave, it's hard to believe that it would be 11:31:32
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07 MR. SPEAR: Objection, scope. Go 11:29:10 ahead. 11:29:14 A. It's a hypothetical you're asking about. 11:29:14 I'm sure there are details of this 11:29:17 hypothetical that are not explicated in 11:29:19 your offering of the hypothetical. I would 11:29:24	4 exchange rate at the time? 11:31:15 5 MR. SPEAR: Objection to form. 11:31:15 6 Objection to scope. 11:31:16 7 A. If you've got different alternatives, the 11:31:18 8 outcome of the different alternatives might 11:31:26 9 be different. In the hypothetical you 11:31:29 10 gave, it's hard to believe that it would be 11:31:32 11 materially different. Bloomberg being a 11:31:34
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07 MR. SPEAR: Objection, scope. Go 11:29:10 ahead. 11:29:14 A. It's a hypothetical you're asking about. 11:29:14 I'm sure there are details of this 11:29:17 hypothetical that are not explicated in 11:29:19 your offering of the hypothetical. I would 11:29:24 want to look at all the facts. Whatever 11:29:27	4 exchange rate at the time? 11:31:15 5 MR. SPEAR: Objection to form. 11:31:15 6 Objection to scope. 11:31:16 7 A. If you've got different alternatives, the 11:31:18 8 outcome of the different alternatives might 11:31:26 9 be different. In the hypothetical you 11:31:29 10 gave, it's hard to believe that it would be 11:31:32 11 materially different. Bloomberg being a 11:31:34 12 reputable database seeks to assess what the 11:31:36
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07 MR. SPEAR: Objection, scope. Go 11:29:10 ahead. 11:29:14 A. It's a hypothetical you're asking about. 11:29:14 I'm sure there are details of this 11:29:17 hypothetical that are not explicated in 11:29:19 your offering of the hypothetical. I would 11:29:24 want to look at all the facts. Whatever 11:29:27 the answer is, you're still left with a 11:29:31	4 exchange rate at the time? 11:31:15 5 MR. SPEAR: Objection to form. 11:31:15 6 Objection to scope. 11:31:16 7 A. If you've got different alternatives, the 11:31:18 8 outcome of the different alternatives might 11:31:26 9 be different. In the hypothetical you 11:31:29 10 gave, it's hard to believe that it would be 11:31:32 11 materially different. Bloomberg being a 11:31:34 12 reputable database seeks to assess what the 11:31:36 13 value of these different digital assets 11:31:41
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07 MR. SPEAR: Objection, scope. Go 11:29:10 ahead. 11:29:14 A. It's a hypothetical you're asking about. 11:29:14 I'm sure there are details of this 11:29:17 hypothetical that are not explicated in 11:29:19 your offering of the hypothetical. I would 11:29:24 want to look at all the facts. Whatever 11:29:27 the answer is, you're still left with a 11:29:31 common methodology for all class members. 11:29:35	4 exchange rate at the time? 11:31:15 5 MR. SPEAR: Objection to form. 11:31:15 6 Objection to scope. 11:31:16 7 A. If you've got different alternatives, the 11:31:18 8 outcome of the different alternatives might 11:31:26 9 be different. In the hypothetical you 11:31:29 10 gave, it's hard to believe that it would be 11:31:32 11 materially different. Bloomberg being a 11:31:34 12 reputable database seeks to assess what the 11:31:36 13 value of these different digital assets 11:31:41 14 actually are at a point in time, so that 11:31:45
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07 MR. SPEAR: Objection, scope. Go 11:29:10 ahead. 11:29:14 A. It's a hypothetical you're asking about. 11:29:14 I'm sure there are details of this 11:29:17 hypothetical that are not explicated in 11:29:19 your offering of the hypothetical. I would 11:29:24 want to look at all the facts. Whatever 11:29:27 the answer is, you're still left with a 11:29:31 common methodology for all class members. 11:29:35 I kind of want to reserve the opportunity 11:29:38	4 exchange rate at the time? 11:31:15  5 MR. SPEAR: Objection to form. 11:31:15  6 Objection to scope. 11:31:16  7 A. If you've got different alternatives, the 11:31:18  8 outcome of the different alternatives might 11:31:26  9 be different. In the hypothetical you 11:31:29  10 gave, it's hard to believe that it would be 11:31:32  11 materially different. Bloomberg being a 11:31:34  12 reputable database seeks to assess what the 11:31:36  13 value of these different digital assets 11:31:41  14 actually are at a point in time, so that 11:31:45  15 would give you an assessment of the value 11:31:48
d obtained transferring U.S. dollars into 11:29:00  Bitcoin be the right to use or more of like 11:29:05  a general Bloomberg rate? 11:29:07  MR. SPEAR: Objection, scope. Go 11:29:10  ahead. 11:29:14  A. It's a hypothetical you're asking about. 11:29:14  I'm sure there are details of this 11:29:17  hypothetical that are not explicated in 11:29:19  your offering of the hypothetical. I would 11:29:24  want to look at all the facts. Whatever 11:29:27  the answer is, you're still left with a 11:29:31  common methodology for all class members. 11:29:35  I kind of want to reserve the opportunity 11:29:38  to think about that some more if it turns 11:29:40	4 exchange rate at the time? 11:31:15  5 MR. SPEAR: Objection to form. 11:31:15  6 Objection to scope. 11:31:16  7 A. If you've got different alternatives, the 11:31:18  8 outcome of the different alternatives might 11:31:26  9 be different. In the hypothetical you 11:31:29  10 gave, it's hard to believe that it would be 11:31:32  11 materially different. Bloomberg being a 11:31:34  12 reputable database seeks to assess what the 11:31:36  13 value of these different digital assets 11:31:41  14 actually are at a point in time, so that 11:31:45  15 would give you an assessment of the value 11:31:48  16 of the consideration paid even if there 11:31:52
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07  MR. SPEAR: Objection, scope. Go 11:29:10 ahead. 11:29:14  A. It's a hypothetical you're asking about. 11:29:14 I'm sure there are details of this 11:29:17 hypothetical that are not explicated in 11:29:19 your offering of the hypothetical. I would 11:29:24 want to look at all the facts. Whatever 11:29:27 the answer is, you're still left with a 11:29:31 common methodology for all class members. 11:29:35 I kind of want to reserve the opportunity 11:29:38 to think about that some more if it turns 11:29:40 out that that hypothetical is realistic. I 11:29:44	4 exchange rate at the time? 11:31:15  5 MR. SPEAR: Objection to form. 11:31:15  6 Objection to scope. 11:31:16  7 A. If you've got different alternatives, the 11:31:18  8 outcome of the different alternatives might 11:31:26  9 be different. In the hypothetical you 11:31:29  10 gave, it's hard to believe that it would be 11:31:32  11 materially different. Bloomberg being a 11:31:34  12 reputable database seeks to assess what the 11:31:36  13 value of these different digital assets 11:31:41  14 actually are at a point in time, so that 11:31:45  15 would give you an assessment of the value 11:31:48  16 of the consideration paid even if there 11:31:52  17 had been a different transaction external to 11:31:54
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07  MR. SPEAR: Objection, scope. Go 11:29:10 ahead. 11:29:14  A. It's a hypothetical you're asking about. 11:29:14 I'm sure there are details of this 11:29:17 Ith hypothetical that are not explicated in 11:29:19 your offering of the hypothetical. I would 11:29:24 want to look at all the facts. Whatever 11:29:27 the answer is, you're still left with a 11:29:31 common methodology for all class members. 11:29:38 It kind of want to reserve the opportunity 11:29:38 to think about that some more if it turns 11:29:44 think I'll leave it at that. 11:29:48	4 exchange rate at the time? 11:31:15  5 MR. SPEAR: Objection to form. 11:31:15  6 Objection to scope. 11:31:16  7 A. If you've got different alternatives, the 11:31:18  8 outcome of the different alternatives might 11:31:26  9 be different. In the hypothetical you 11:31:29  10 gave, it's hard to believe that it would be 11:31:32  11 materially different. Bloomberg being a 11:31:34  12 reputable database seeks to assess what the 11:31:36  13 value of these different digital assets 11:31:41  14 actually are at a point in time, so that 11:31:45  15 would give you an assessment of the value 11:31:48  16 of the consideration paid even if there 11:31:52  17 had been a different transaction external to 11:31:54  18 the XRP purchase at a different price. 11:31:59
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07  MR. SPEAR: Objection, scope. Go 11:29:10 ahead. 11:29:14  A. It's a hypothetical you're asking about. 11:29:14 I'm sure there are details of this 11:29:17 Ithypothetical that are not explicated in 11:29:19 your offering of the hypothetical. I would 11:29:24 want to look at all the facts. Whatever 11:29:27 the answer is, you're still left with a 11:29:31 common methodology for all class members. 11:29:35 I kind of want to reserve the opportunity 11:29:38 to think about that some more if it turns 11:29:40 out that that hypothetical is realistic. I 11:29:44 think I'll leave it at that. 11:29:48 Q. What I hear you saying is it could be that 11:29:49	4 exchange rate at the time? 11:31:15  5 MR. SPEAR: Objection to form. 11:31:15  6 Objection to scope. 11:31:16  7 A. If you've got different alternatives, the 11:31:18  8 outcome of the different alternatives might 11:31:26  9 be different. In the hypothetical you 11:31:29  10 gave, it's hard to believe that it would be 11:31:32  11 materially different. Bloomberg being a 11:31:34  12 reputable database seeks to assess what the 11:31:36  13 value of these different digital assets 11:31:41  14 actually are at a point in time, so that 11:31:45  15 would give you an assessment of the value 11:31:48  16 of the consideration paid even if there 11:31:52  17 had been a different transaction external to 11:31:54  18 the XRP purchase at a different price. 11:31:59  19 Q. Do crypto exchanges, to your knowledge, 11:32:11
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07  MR. SPEAR: Objection, scope. Go 11:29:10 ahead. 11:29:14  A. It's a hypothetical you're asking about. 11:29:14 I'm sure there are details of this 11:29:17 In hypothetical that are not explicated in 11:29:19 your offering of the hypothetical. I would 11:29:24 want to look at all the facts. Whatever 11:29:27 the answer is, you're still left with a 11:29:31 common methodology for all class members. 11:29:35 I kind of want to reserve the opportunity 11:29:38 to think about that some more if it turns 11:29:40 out that that hypothetical is realistic. I 11:29:44 think I'll leave it at that. 11:29:48 Q. What I hear you saying is it could be that 11:29:49 different exchange rates could be used 11:29:55	4 exchange rate at the time? 11:31:15  5 MR. SPEAR: Objection to form. 11:31:15  6 Objection to scope. 11:31:16  7 A. If you've got different alternatives, the 11:31:18  8 outcome of the different alternatives might 11:31:26  9 be different. In the hypothetical you 11:31:29  10 gave, it's hard to believe that it would be 11:31:32  11 materially different. Bloomberg being a 11:31:34  12 reputable database seeks to assess what the 11:31:36  13 value of these different digital assets 11:31:41  14 actually are at a point in time, so that 11:31:45  15 would give you an assessment of the value 11:31:48  16 of the consideration paid even if there 11:31:52  17 had been a different transaction external to 11:31:54  18 the XRP purchase at a different price. 11:31:59  19 Q. Do crypto exchanges, to your knowledge, 11:32:11  20 typically charge transaction fees? 11:32:18  21 A. I'm not sure. I know there's a bid-ask 11:32:25
obtained transferring U.S. dollars into 11:29:00  Bitcoin be the right to use or more of like 11:29:05  a general Bloomberg rate? 11:29:07  MR. SPEAR: Objection, scope. Go 11:29:10  ahead. 11:29:14  A. It's a hypothetical you're asking about. 11:29:14  I'm sure there are details of this 11:29:17  hypothetical that are not explicated in 11:29:19  your offering of the hypothetical. I would 11:29:24  want to look at all the facts. Whatever 11:29:27  the answer is, you're still left with a 11:29:31  common methodology for all class members. 11:29:35  I kind of want to reserve the opportunity 11:29:38  to think about that some more if it turns 11:29:40  out that that hypothetical is realistic. I 11:29:44  think I'll leave it at that. 11:29:48  Q. What I hear you saying is it could be that 11:29:49  different exchange rates could be used 11:29:56	4 exchange rate at the time? 11:31:15  5 MR. SPEAR: Objection to form. 11:31:15  6 Objection to scope. 11:31:16  7 A. If you've got different alternatives, the 11:31:18  8 outcome of the different alternatives might 11:31:26  9 be different. In the hypothetical you 11:31:29  10 gave, it's hard to believe that it would be 11:31:32  11 materially different. Bloomberg being a 11:31:34  12 reputable database seeks to assess what the 11:31:36  13 value of these different digital assets 11:31:41  14 actually are at a point in time, so that 11:31:45  15 would give you an assessment of the value 11:31:48  16 of the consideration paid even if there 11:31:52  17 had been a different transaction external to 11:31:54  18 the XRP purchase at a different price. 11:32:19  19 Q. Do crypto exchanges, to your knowledge, 11:32:11  20 typically charge transaction fees? 11:32:18  21 A. I'm not sure. I know there's a bid-ask 11:32:25  22 spread. I just don't recall whether 11:32:29
obtained transferring U.S. dollars into 11:29:00 Bitcoin be the right to use or more of like 11:29:05 a general Bloomberg rate? 11:29:07  MR. SPEAR: Objection, scope. Go 11:29:10 ahead. 11:29:14  A. It's a hypothetical you're asking about. 11:29:14 I'm sure there are details of this 11:29:17 hypothetical that are not explicated in 11:29:19 your offering of the hypothetical. I would 11:29:24 want to look at all the facts. Whatever 11:29:27 the answer is, you're still left with a 11:29:31 common methodology for all class members. 11:29:35 I kind of want to reserve the opportunity 11:29:38 to think about that some more if it turns 11:29:40 out that that hypothetical is realistic. I 11:29:48 OQ. What I hear you saying is it could be that 11:29:55 for different types of purchasers of XRP 11:29:56 depending on the circumstances of their 11:29:59	4 exchange rate at the time? 11:31:15  5 MR. SPEAR: Objection to form. 11:31:15  6 Objection to scope. 11:31:16  7 A. If you've got different alternatives, the 11:31:18  8 outcome of the different alternatives might 11:31:26  9 be different. In the hypothetical you 11:31:29  10 gave, it's hard to believe that it would be 11:31:32  11 materially different. Bloomberg being a 11:31:34  12 reputable database seeks to assess what the 11:31:36  13 value of these different digital assets 11:31:41  14 actually are at a point in time, so that 11:31:45  15 would give you an assessment of the value 11:31:48  16 of the consideration paid even if there 11:31:52  17 had been a different transaction external to 11:31:54  18 the XRP purchase at a different price. 11:31:59  19 Q. Do crypto exchanges, to your knowledge, 11:32:11  20 typically charge transaction fees? 11:32:18  21 A. I'm not sure. I know there's a bid-ask 11:32:25  22 spread. I just don't recall whether 11:32:39  23 there's some might charge a commission 11:32:33
obtained transferring U.S. dollars into 11:29:00  Bitcoin be the right to use or more of like 11:29:05  a general Bloomberg rate? 11:29:07  MR. SPEAR: Objection, scope. Go 11:29:10  ahead. 11:29:14  A. It's a hypothetical you're asking about. 11:29:14  I'm sure there are details of this 11:29:17  hypothetical that are not explicated in 11:29:19  your offering of the hypothetical. I would 11:29:24  want to look at all the facts. Whatever 11:29:27  the answer is, you're still left with a 11:29:31  common methodology for all class members. 11:29:35  I kind of want to reserve the opportunity 11:29:38  to think about that some more if it turns 11:29:40  out that that hypothetical is realistic. I 11:29:48  Q. What I hear you saying is it could be that 11:29:49  different exchange rates could be used 11:29:55  for different types of purchasers of XRP 11:29:59	4 exchange rate at the time? 11:31:15  5 MR. SPEAR: Objection to form. 11:31:15  6 Objection to scope. 11:31:16  7 A. If you've got different alternatives, the 11:31:18  8 outcome of the different alternatives might 11:31:26  9 be different. In the hypothetical you 11:31:29  10 gave, it's hard to believe that it would be 11:31:32  11 materially different. Bloomberg being a 11:31:34  12 reputable database seeks to assess what the 11:31:36  13 value of these different digital assets 11:31:41  14 actually are at a point in time, so that 11:31:45  15 would give you an assessment of the value 11:31:48  16 of the consideration paid even if there 11:31:52  17 had been a different transaction external to 11:31:54  18 the XRP purchase at a different price. 11:31:59  19 Q. Do crypto exchanges, to your knowledge, 11:32:11  20 typically charge transaction fees? 11:32:18  21 A. I'm not sure. I know there's a bid-ask 11:32:25  22 spread. I just don't recall whether 11:32:39  23 there's some might charge a commission 11:32:33

1 and a bid-ask spread is a transaction fee. 11:32:49	1 in violation of Section 5 may sue to recover 11:36:15
2 Q. Do you know if crypto exchanges like 11:32:52	2 the consideration paid for such security 11:36:19
3 Coinbase, for example, charge fees separate 11:32:55	3 with interest thereon, less the amount of 11:36:24
4 from any bid-ask spread? 11:32:59	4 any income received thereon upon the tender 11:36:27
5 A. Whether they do or don't doesn't make this 11:33:07	5 of such security or for damages if he no 11:36:33
6 calculation any different from calculation 11:33:10	6 longer owns the security." I'm going to 11:36:40
7 of damages in a stock or a bond case. In 11:33:14	7 break down some of the words. 11:36:44
8 stocks and bonds there's bid-ask spreads 11:33:19	8 The consideration paid for such 11:36:46
9 and there are are commissions charged. 11:33:22	9 security, you've expressed the view that it 11:36:47
10 How one deals with transaction fees in 11:33:26	10 could be the consideration paid, for example, 11:36:50
11 calculating damages is well-trod ground in 11:33:28	11 Bitcoin, or the value of that consideration 11:36:53
the calculation of damages and doesn't, 11:33:36	paid, for example, translating that Bitcoin 11:36:55
wouldn't cause there to be anything but a 11:33:39	13 amount into U.S. dollars at the time of 11:36:58
14 common damage methodology that could be 11:33:42	14 purchase, correct? 11:37:00
15 applied. 11:33:44	15 A. Well, I understand that there might be a 11:37:02
To answer your question, I don't 11:33:46	16 legal determination that needs to be made 11:37:06
17 know as I sit here now. I mean, there's 11:33:48	17 as to whether the word "consideration" here 11:37:08
18 160 exchanges. Some might, some might not. 11:33:50	means the form of the consideration or the 11:37:11
19 Q. In this common methodology that you're 11:33:56	19 value of the consideration. I believe it 11:37:13
20 proposing in your report, do transaction 11:34:03	20 means the value of the consideration because 11:37:16
21 fees factor into the calculation of gain or 11:34:06	21 that's how you would then be able to 11:37:20
22 loss? 11:34:09	22 calculate interest thereon, but I'm not here 11:37:22
23 A. Well, if the transaction fee is in the 11:34:11	23 to make legal determinations. I'm here to 11:37:30
24 form of a bid-ask spread, then one would be 11:34:13	24 offer economic opinions based in economics, 11:37:34
25 purchasing at the ask and selling at the 11:34:19	25 and my economics opinion is that whichever 11:37:39
Page 74	Page 76
1 bid and so the transaction fee would be 11:34:20	1 legal determination is made, it would be 11:37:42
2 factored in. My understanding is that when 11:34:25	2 a common methodology for all class members 11:37:44
3 there's a separate commission paid, there 11:34:28	3 either way, although I think one is better 11:37:47
4 would have to be a determination as to 11:34:32	4 than the other. 11:37:49
5 whether that should be included as a cost 11:34:34	5 Q. The formulas that you proceed to propose 11:37:50
6 for the purchase or not, and if it's 11:34:37	6 in Paragraphs 19 and 20 proceed from the 11:37:53
7 determined that it should be included, then 11:34:41	7 notion that the consideration paid is the 11:38:00
8 it would be included for all class members, 11:34:44	8 value of the consideration paid, is that 11:38:02
9 and if it's determined that it should be 11:34:45	9 correct? 11:38:04
10 excluded, it would be excluded for all class 11:34:48	10 A. Yes. That's how you would then be able 11:38:04
11 members. 11:34:50	11 to calculate interest thereon. 11:38:09
12 Q. Does your report express a view on that? 11:34:51	12 Q. Could you not calculate interest thereon 11:38:13
13 A. No, but I do want to point out the exact 11:34:56	13 if the consideration was, for example, 11:38:15
14 same considerations and factors apply to 11:35:10	14 Bitcoin? 11:38:18
15 damages in every other class action security 11:35:14	15 MR. SPEAR: Objection, scope. 11:38:20
16 case that I've ever been involved in. 11:35:19	16 A. You may or may not be able to depending on 11:38:21
17 Q. So referring to Paragraph 17 of your report, 11:35:22	17 if you interpreted this to mean any form of 11:38:26
18 you copy-and-paste here the methodology for 11:35:41	18 consideration left in that original form. 11:38:29
19 calculating damages under Section 12(a) of 11:35:41	19 Q. Can you explain what you mean by that? 11:38:35
20 the Securities Act. Do you see that? 11:35:46	20 A. If the consideration is a box of candy, 11:38:39
21 A. Yeah, 12(a)(1), but yes. 11:35:47	21 how are you going to calculate interest 11:38:41
22 Q. And the damages, the methodology strike 11:35:50	22 thereon? I think it's got to be translated 11:38:43
23 that. I'll start over. 11:36:04	23 to dollars in order to calculate interest 11:38:48
24 The statute provides that "any 11:36:08	24 thereon. Dollars have an interest rate. I 11:38:51
1	21 diereon. Bondis nave dir interest rate. 1 11.30.51
25 person who purchases an unregistered security 11:36:12 Page 75	25 think that's what the statute contemplates. 11:38:55

1 Q. I see. So in the scenario where, for 11:38:58	1 out to a third party for that third party 11:41:48
2 example, someone exchanges a cup of coffee 11:39:02	2 to use in exchange for interest payments 11:41:52
3 for XRP, a tangible good like a cup of 11:39:05	3 A. Right. 11:41:54
4 coffee for XRP, it would be hard to calculate 11:39:10	4 Q does that and received those interest 11:41:55
5 the interest that one would have obtained 11:39:12	5 payments 11:41:58
6 on a cup of coffee? 11:39:15	6 A. Right. 11:41:58
7 A. It would be very easy if you translated it 11:39:16	7 Q and at the end of a period of time 11:41:58
8 into value first. That's why I think that's 11:39:21	8 received their XRP back 11:42:00
9 what the statute contemplates. 11:39:22	9 A. Right. 11:42:02
10 Q. Okay. It says here in the statute that you 11:39:25	10 Q and then sold it, let's say, does the 11:42:03
11 then subtract from the amount recovered, the 11:39:28	11 interest that that XRP holder earned while 11:42:08
amount of any income received thereon? 11:39:34	having lent out the XRP factor into your 11:42:11
13 A. Right. 11:39:37	13 calculation of gain or loss? 11:42:16
14 Q. Is it possible to receive income on XRP 11:39:37	14 A. It's excluded. That doesn't count. That's 11:42:17
during the period of time when you're holding 11:39:46	not interest thereon. That's interest or 11:42:21
16 it? 11:39:48	payment for bearing counterparty risk for a 11:42:24
17 A. Well, Ripple did not pay interest or 11:39:48	17 separate transaction. That's not at issue 11:42:26
18 dividends on its XRP tokens. There are other 11:39:50	18 in this case. What's at issue in this case 11:42:31
19 applications or transactions that people 11:39:58	19 is if Ripple paid dividends or interest on 11:42:37
20 might have gone to to try to earn income 11:39:59	20 XRP tokens, and they did not. So it was 11:42:46
21 being in possession of XRP, but that's 11:40:04	21 considered in my opinion. It was considered 11:42:4'
22 what this here means is dividends or interest 11:40:07	in the formulas. It's represented 11:42:48
23 paid by the issuer, and XRP did not pay 11:40:10	23 appropriately in my opinion and the formulas 11:42:5
24 dividends on its XRP tokens. 11:40:15	by being excluded. 11:42:54
25 Q. What are the other types of applications or 11:40:16	25 Q. Understood. 11:42:55
Page 78	Page 80
1 transactions that people might have gone 11:40:19	1 A. Can we take a break? 11:43:00
1 transactions that people might have gone 11:40:19 2 on to try to earn income on their XRP while 11:40:20	1 A. Can we take a break? 11:43:00 2 O. I was about to propose the same thing. 11:43:02
2 on to try to earn income on their XRP while 11:40:20	2 Q. I was about to propose the same thing. 11:43:02
2 on to try to earn income on their XRP while 11:40:20 3 holding it? 11:40:25	<ul> <li>Q. I was about to propose the same thing. 11:43:02</li> <li>MR. MICHAELSON: We can go off the 11:43:04</li> </ul>
2 on to try to earn income on their XRP while 11:40:20 3 holding it? 11:40:25 4 A. I'll give you two. Take your XRP and maybe 11:40:25	<ul> <li>Q. I was about to propose the same thing. 11:43:02</li> <li>MR. MICHAELSON: We can go off the 11:43:04</li> <li>record. 11:43:07</li> </ul>
2 on to try to earn income on their XRP while 11:40:20 3 holding it? 11:40:25 4 A. I'll give you two. Take your XRP and maybe 11:40:25 5 use it as collateral to engage in a real 11:40:30	<ul> <li>Q. I was about to propose the same thing. 11:43:02</li> <li>MR. MICHAELSON: We can go off the 11:43:04</li> <li>record. 11:43:07</li> <li>VIDEOGRAPHER: The time is 11:43. 11:43:07</li> </ul>
2 on to try to earn income on their XRP while 11:40:20 3 holding it? 11:40:25 4 A. I'll give you two. Take your XRP and maybe 11:40:25 5 use it as collateral to engage in a real 11:40:30 6 estate investment and then it turns out to 11:40:37	<ul> <li>Q. I was about to propose the same thing. 11:43:02</li> <li>MR. MICHAELSON: We can go off the 11:43:04</li> <li>record. 11:43:07</li> <li>VIDEOGRAPHER: The time is 11:43. 11:43:07</li> <li>We're off the record. 11:43:09</li> </ul>
2 on to try to earn income on their XRP while 11:40:20 3 holding it? 11:40:25 4 A. I'll give you two. Take your XRP and maybe 11:40:25 5 use it as collateral to engage in a real 11:40:30 6 estate investment and then it turns out to 11:40:37 7 be a good real estate investment. That's 11:40:40	<ul> <li>Q. I was about to propose the same thing. 11:43:02</li> <li>MR. MICHAELSON: We can go off the 11:43:04</li> <li>record. 11:43:07</li> <li>VIDEOGRAPHER: The time is 11:43. 11:43:07</li> <li>We're off the record. 11:43:09</li> <li>(Break taken) 11:43:10</li> </ul>
2 on to try to earn income on their XRP while 11:40:20 3 holding it? 11:40:25 4 A. I'll give you two. Take your XRP and maybe 11:40:25 5 use it as collateral to engage in a real 11:40:30 6 estate investment and then it turns out to 11:40:37 7 be a good real estate investment. That's 11:40:40 8 clearly not what the statute contemplates. 11:40:42	<ul> <li>Q. I was about to propose the same thing. 11:43:02</li> <li>MR. MICHAELSON: We can go off the 11:43:04</li> <li>record. 11:43:07</li> <li>VIDEOGRAPHER: The time is 11:43. 11:43:07</li> <li>We're off the record. 11:43:09</li> <li>(Break taken) 11:43:10</li> <li>VIDEOGRAPHER: We are back on the 11:59:11</li> </ul>
2 on to try to earn income on their XRP while 11:40:20 3 holding it? 11:40:25 4 A. I'll give you two. Take your XRP and maybe 11:40:25 5 use it as collateral to engage in a real 11:40:30 6 estate investment and then it turns out to 11:40:37 7 be a good real estate investment. That's 11:40:40 8 clearly not what the statute contemplates. 11:40:42 9 That's not interest thereon. That's not 11:40:45	<ul> <li>Q. I was about to propose the same thing. 11:43:02</li> <li>MR. MICHAELSON: We can go off the 11:43:04</li> <li>record. 11:43:07</li> <li>VIDEOGRAPHER: The time is 11:43. 11:43:07</li> <li>We're off the record. 11:43:09</li> <li>(Break taken) 11:43:10</li> <li>VIDEOGRAPHER: We are back on the 11:59:11</li> <li>record. The time is 11:59. 11:59:15</li> </ul>
2 on to try to earn income on their XRP while 11:40:20 3 holding it? 11:40:25 4 A. I'll give you two. Take your XRP and maybe 11:40:25 5 use it as collateral to engage in a real 11:40:30 6 estate investment and then it turns out to 11:40:37 7 be a good real estate investment. That's 11:40:40 8 clearly not what the statute contemplates. 11:40:42 9 That's not interest thereon. That's not 11:40:45 10 interest that the security pays. 11:40:47	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:09 7 (Break taken) 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:18
2 on to try to earn income on their XRP while 11:40:20 3 holding it? 11:40:25 4 A. I'll give you two. Take your XRP and maybe 11:40:25 5 use it as collateral to engage in a real 11:40:30 6 estate investment and then it turns out to 11:40:37 7 be a good real estate investment. That's 11:40:40 8 clearly not what the statute contemplates. 11:40:42 9 That's not interest thereon. That's not 11:40:45 10 interest that the security pays. 11:40:47 11 I do know that there were digital 11:40:48	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:09 7 (Break taken) 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:18 11 Q. Dr. Feinstein, I'd like to direct your 11:59:21
2 on to try to earn income on their XRP while 11:40:20 3 holding it? 11:40:25 4 A. I'll give you two. Take your XRP and maybe 11:40:25 5 use it as collateral to engage in a real 11:40:30 6 estate investment and then it turns out to 11:40:37 7 be a good real estate investment. That's 11:40:40 8 clearly not what the statute contemplates. 11:40:42 9 That's not interest thereon. That's not 11:40:45 10 interest that the security pays. 11:40:47 11 I do know that there were digital 11:40:48 12 asset market participants that would pay 11:40:53	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:09 7 (Break taken) 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:18 11 Q. Dr. Feinstein, I'd like to direct your 11:59:21 12 attention to Page 5 of Exhibit 10, your 11:59:24
2 on to try to earn income on their XRP while 11:40:20 3 holding it? 11:40:25 4 A. I'll give you two. Take your XRP and maybe 11:40:25 5 use it as collateral to engage in a real 11:40:30 6 estate investment and then it turns out to 11:40:37 7 be a good real estate investment. That's 11:40:40 8 clearly not what the statute contemplates. 11:40:42 9 That's not interest thereon. That's not 11:40:45 10 interest that the security pays. 11:40:47 11 I do know that there were digital 11:40:48 12 asset market participants that would pay 11:40:53 13 short sell lending fees or if you would 11:40:56	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:09 7 (Break taken) 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:18 11 Q. Dr. Feinstein, I'd like to direct your 11:59:21 12 attention to Page 5 of Exhibit 10, your 11:59:24 13 report, specifically Paragraph 20 which I 11:59:30
2 on to try to earn income on their XRP while 11:40:20 3 holding it? 11:40:25 4 A. I'll give you two. Take your XRP and maybe 11:40:25 5 use it as collateral to engage in a real 11:40:30 6 estate investment and then it turns out to 11:40:37 7 be a good real estate investment. That's 11:40:40 8 clearly not what the statute contemplates. 11:40:42 9 That's not interest thereon. That's not 11:40:45 10 interest that the security pays. 11:40:47 11 I do know that there were digital 11:40:48 12 asset market participants that would pay 11:40:53 13 short sell lending fees or if you would 11:40:56 14 lend your assets to them, they would pay you 11:41:01	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:10 7 (Break taken) 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:18 11 Q. Dr. Feinstein, I'd like to direct your 11:59:21 12 attention to Page 5 of Exhibit 10, your 11:59:24 13 report, specifically Paragraph 20 which I 11:59:36
on to try to earn income on their XRP while 11:40:20  holding it? 11:40:25  A. I'll give you two. Take your XRP and maybe 11:40:25  use it as collateral to engage in a real 11:40:30  estate investment and then it turns out to 11:40:37  be a good real estate investment. That's 11:40:40  clearly not what the statute contemplates. 11:40:42  That's not interest thereon. That's not 11:40:45  interest that the security pays. 11:40:47  I do know that there were digital 11:40:48  asset market participants that would pay 11:40:53  short sell lending fees or if you would 11:40:56  lend your assets to them, they would pay you 11:41:01  interest on it, but that's a separate 11:41:03	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:09 7 (Break taken) 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:18 11 Q. Dr. Feinstein, I'd like to direct your 11:59:21 12 attention to Page 5 of Exhibit 10, your 11:59:24 13 report, specifically Paragraph 20 which I 11:59:30 14 understand is the paragraph that sets forth 11:59:36 15 the methodology for calculating damages 11:59:38
on to try to earn income on their XRP while 11:40:20  holding it? 11:40:25  A. I'll give you two. Take your XRP and maybe 11:40:25  use it as collateral to engage in a real 11:40:30  estate investment and then it turns out to 11:40:37  be a good real estate investment. That's 11:40:40  clearly not what the statute contemplates. 11:40:42  That's not interest thereon. That's not 11:40:45  interest that the security pays. 11:40:47  I do know that there were digital 11:40:48  asset market participants that would pay 11:40:53  short sell lending fees or if you would 11:40:56  lend your assets to them, they would pay you 11:41:01  interest on it, but that's a separate 11:41:03  transaction outside of the transaction with 11:41:05	2 Q. I was about to propose the same thing.       11:43:02         3 MR. MICHAELSON: We can go off the record.       11:43:07         5 VIDEOGRAPHER: The time is 11:43.       11:43:07         6 We're off the record.       11:43:10         7 (Break taken)       11:43:10         8 VIDEOGRAPHER: We are back on the record. The time is 11:59.       11:59:11         9 record. The time is 11:59.       11:59:15         10 BY MR. MICHAELSON:       11:59:18         11 Q. Dr. Feinstein, I'd like to direct your report, specifically Paragraph 20 which I report, specifically Paragraph 20 which I report, specifically Paragraph 20 which I report, specifically Paragraph that sets forth report report, specifically Paragraph that sets forth report report, specifically Paragraph that sets forth report rep
on to try to earn income on their XRP while 11:40:20  holding it? 11:40:25  A. I'll give you two. Take your XRP and maybe 11:40:25  use it as collateral to engage in a real 11:40:30  estate investment and then it turns out to 11:40:37  be a good real estate investment. That's 11:40:40  clearly not what the statute contemplates. 11:40:42  That's not interest thereon. That's not 11:40:45  interest that the security pays. 11:40:47  I do know that there were digital 11:40:48  asset market participants that would pay 11:40:53  short sell lending fees or if you would 11:40:56  lend your assets to them, they would pay you 11:41:01  interest on it, but that's a separate 11:41:03  transaction outside of the transaction with 11:41:05  Ripple, outside of the interest that Ripple 11:41:08	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:18 11 Q. Dr. Feinstein, I'd like to direct your 11:59:21 12 attention to Page 5 of Exhibit 10, your 11:59:24 13 report, specifically Paragraph 20 which I 11:59:36 14 understand is the paragraph that sets forth 11:59:36 15 the methodology for calculating damages 11:59:38 16 for an XRP purchaser who has not sold, 11:59:40 17 correct? 11:59:46
on to try to earn income on their XRP while 11:40:20  holding it? 11:40:25  A. I'll give you two. Take your XRP and maybe 11:40:25  use it as collateral to engage in a real 11:40:30  estate investment and then it turns out to 11:40:37  be a good real estate investment. That's 11:40:40  clearly not what the statute contemplates. 11:40:42  That's not interest thereon. That's not 11:40:45  interest that the security pays. 11:40:47  I do know that there were digital 11:40:48  asset market participants that would pay 11:40:53  short sell lending fees or if you would 11:40:56  lend your assets to them, they would pay you 11:41:01  interest on it, but that's a separate 11:41:03  transaction outside of the transaction with 11:41:05  Ripple, outside of the interest that Ripple 11:41:08  would pay on its XRP tokens. And clearly, 11:41:13	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:18 11 Q. Dr. Feinstein, I'd like to direct your 11:59:21 12 attention to Page 5 of Exhibit 10, your 11:59:24 13 report, specifically Paragraph 20 which I 11:59:30 14 understand is the paragraph that sets forth 11:59:36 15 the methodology for calculating damages 11:59:38 16 for an XRP purchaser who has not sold, 11:59:40 17 correct? 11:59:46 18 A. Yes. 11:59:46
on to try to earn income on their XRP while 11:40:20  holding it? 11:40:25  A. I'll give you two. Take your XRP and maybe 11:40:25  use it as collateral to engage in a real 11:40:30  estate investment and then it turns out to 11:40:37  be a good real estate investment. That's 11:40:40  clearly not what the statute contemplates. 11:40:42  That's not interest thereon. That's not 11:40:45  interest that the security pays. 11:40:47  I do know that there were digital 11:40:48  asset market participants that would pay 11:40:53  short sell lending fees or if you would 11:40:56  lend your assets to them, they would pay you 11:41:01  interest on it, but that's a separate 11:41:03  transaction outside of the transaction with 11:41:05  Ripple, outside of the interest that Ripple 11:41:08  would pay on its XRP tokens. And clearly, 11:41:13  from what I know about other cases I've been 11:41:19	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:09 7 (Break taken) 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:18 11 Q. Dr. Feinstein, I'd like to direct your 11:59:21 12 attention to Page 5 of Exhibit 10, your 11:59:24 13 report, specifically Paragraph 20 which I 11:59:30 14 understand is the paragraph that sets forth 11:59:36 15 the methodology for calculating damages 11:59:38 16 for an XRP purchaser who has not sold, 11:59:40 17 correct? 11:59:46 18 A. Yes. 11:59:46
on to try to earn income on their XRP while 11:40:20  holding it? 11:40:25  A. I'll give you two. Take your XRP and maybe 11:40:25  use it as collateral to engage in a real 11:40:30  estate investment and then it turns out to 11:40:37  be a good real estate investment. That's 11:40:40  clearly not what the statute contemplates. 11:40:42  That's not interest thereon. That's not 11:40:45  interest that the security pays. 11:40:47  I do know that there were digital 11:40:48  asset market participants that would pay 11:40:53  short sell lending fees or if you would 11:40:56  lend your assets to them, they would pay you 11:41:01  interest on it, but that's a separate 11:41:03  transaction outside of the transaction with 11:41:05  Ripple, outside of the interest that Ripple 11:41:08  would pay on its XRP tokens. And clearly, 11:41:13  from what I know about other cases I've been 11:41:19  involved in, things like short sale lending 11:41:21	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:09 7 (Break taken) 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:15 11 Q. Dr. Feinstein, I'd like to direct your 11:59:21 12 attention to Page 5 of Exhibit 10, your 11:59:24 13 report, specifically Paragraph 20 which I 11:59:30 14 understand is the paragraph that sets forth 11:59:36 15 the methodology for calculating damages 11:59:38 16 for an XRP purchaser who has not sold, 11:59:40 17 correct? 11:59:46 18 A. Yes. 11:59:46 19 Q. So referring to the formula here, it says, 11:59:46 20 "the damages for class members who purchased 11:59:52
on to try to earn income on their XRP while 11:40:20  holding it? 11:40:25  A. I'll give you two. Take your XRP and maybe 11:40:25  use it as collateral to engage in a real 11:40:30  estate investment and then it turns out to 11:40:37  be a good real estate investment. That's 11:40:40  clearly not what the statute contemplates. 11:40:42  That's not interest thereon. That's not 11:40:45  interest that the security pays. 11:40:47  I do know that there were digital 11:40:48  asset market participants that would pay 11:40:53  short sell lending fees or if you would 11:40:56  lend your assets to them, they would pay you 11:41:01  interest on it, but that's a separate 11:41:03  transaction outside of the transaction with 11:41:05  Ripple, outside of the interest that Ripple 11:41:08  would pay on its XRP tokens. And clearly, 11:41:13  from what I know about other cases I've been 11:41:19  involved in, things like short sale lending 11:41:21  fees are not what the statute meant when it 11:41:25	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:18 11 Q. Dr. Feinstein, I'd like to direct your 11:59:21 12 attention to Page 5 of Exhibit 10, your 11:59:24 13 report, specifically Paragraph 20 which I 11:59:30 14 understand is the paragraph that sets forth 11:59:36 15 the methodology for calculating damages 11:59:38 16 for an XRP purchaser who has not sold, 11:59:40 17 correct? 11:59:46 18 A. Yes. 11:59:46 19 Q. So referring to the formula here, it says, 11:59:52 21 but never sold XRP equals," then you start 11:59:55
on to try to earn income on their XRP while 11:40:20  holding it? 11:40:25  A. I'll give you two. Take your XRP and maybe 11:40:25  use it as collateral to engage in a real 11:40:30  estate investment and then it turns out to 11:40:37  be a good real estate investment. That's 11:40:40  clearly not what the statute contemplates. 11:40:42  That's not interest thereon. That's not 11:40:45  interest that the security pays. 11:40:47  I do know that there were digital 11:40:48  asset market participants that would pay 11:40:53  short sell lending fees or if you would 11:40:56  lend your assets to them, they would pay you 11:41:01  interest on it, but that's a separate 11:41:03  transaction outside of the transaction with 11:41:05  Ripple, outside of the interest that Ripple 11:41:08  would pay on its XRP tokens. And clearly, 11:41:13  from what I know about other cases I've been 11:41:19  involved in, things like short sale lending 11:41:21  fees are not what the statute meant when it 11:41:25  said income received thereon. What's been 11:41:31	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:18 11 Q. Dr. Feinstein, I'd like to direct your 11:59:21 12 attention to Page 5 of Exhibit 10, your 11:59:24 13 report, specifically Paragraph 20 which I 11:59:30 14 understand is the paragraph that sets forth 11:59:36 15 the methodology for calculating damages 11:59:38 16 for an XRP purchaser who has not sold, 11:59:40 17 correct? 11:59:46 18 A. Yes. 11:59:46 19 Q. So referring to the formula here, it says, 11:59:46 20 "the damages for class members who purchased 11:59:52 21 but never sold XRP equals," then you start 11:59:55 22 with a dollar amount paid at the time of 11:59:59
on to try to earn income on their XRP while 11:40:20  holding it? 11:40:25  A. I'll give you two. Take your XRP and maybe 11:40:25  use it as collateral to engage in a real 11:40:30  estate investment and then it turns out to 11:40:37  be a good real estate investment. That's 11:40:40  clearly not what the statute contemplates. 11:40:42  That's not interest thereon. That's not 11:40:45  interest that the security pays. 11:40:47  I do know that there were digital 11:40:48  asset market participants that would pay 11:40:53  short sell lending fees or if you would 11:40:56  lend your assets to them, they would pay you 11:41:01  interest on it, but that's a separate 11:41:03  transaction outside of the transaction with 11:41:05  Ripple, outside of the interest that Ripple 11:41:08  would pay on its XRP tokens. And clearly, 11:41:13  from what I know about other cases I've been 11:41:19  involved in, things like short sale lending 11:41:21  fees are not what the statute meant when it 11:41:25  said income received thereon. What's been 11:41:31  interpreted in other cases is that it's 11:41:35	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:18 11 Q. Dr. Feinstein, I'd like to direct your 11:59:21 12 attention to Page 5 of Exhibit 10, your 11:59:24 13 report, specifically Paragraph 20 which I 11:59:30 14 understand is the paragraph that sets forth 11:59:36 15 the methodology for calculating damages 11:59:38 16 for an XRP purchaser who has not sold, 11:59:40 17 correct? 11:59:46 18 A. Yes. 11:59:46 19 Q. So referring to the formula here, it says, 11:59:46 20 "the damages for class members who purchased 11:59:52 21 but never sold XRP equals," then you start 11:59:55 22 with a dollar amount paid at the time of 11:59:59 23 purchase. Do you see that? 12:00:01
on to try to earn income on their XRP while 11:40:20  holding it? 11:40:25  A. I'll give you two. Take your XRP and maybe 11:40:25  use it as collateral to engage in a real 11:40:30  estate investment and then it turns out to 11:40:37  be a good real estate investment. That's 11:40:40  clearly not what the statute contemplates. 11:40:42  That's not interest thereon. That's not 11:40:45  interest that the security pays. 11:40:47  I do know that there were digital 11:40:48  asset market participants that would pay 11:40:53  short sell lending fees or if you would 11:40:56  lend your assets to them, they would pay you 11:41:01  interest on it, but that's a separate 11:41:03  fransaction outside of the transaction with 11:41:05  Ripple, outside of the interest that Ripple 11:41:08  would pay on its XRP tokens. And clearly, 11:41:13  from what I know about other cases I've been 11:41:21  fees are not what the statute meant when it 11:41:25  said income received thereon. What's been 11:41:31  interpreted in other cases is that it's 11:41:35  interpreted in other cases is that it's 11:41:38	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:15 11 Q. Dr. Feinstein, I'd like to direct your 11:59:21 12 attention to Page 5 of Exhibit 10, your 11:59:24 13 report, specifically Paragraph 20 which I 11:59:30 14 understand is the paragraph that sets forth 11:59:36 15 the methodology for calculating damages 11:59:38 16 for an XRP purchaser who has not sold, 11:59:40 17 correct? 11:59:46 18 A. Yes. 11:59:46 19 Q. So referring to the formula here, it says, 11:59:46 20 "the damages for class members who purchased 11:59:52 21 but never sold XRP equals," then you start 11:59:55 22 with a dollar amount paid at the time of 11:59:59 23 purchase. Do you see that? 12:00:01 24 A. Yes. 12:00:02
on to try to earn income on their XRP while 11:40:20  holding it? 11:40:25  A. I'll give you two. Take your XRP and maybe 11:40:25  use it as collateral to engage in a real 11:40:30  estate investment and then it turns out to 11:40:37  be a good real estate investment. That's 11:40:40  clearly not what the statute contemplates. 11:40:42  That's not interest thereon. That's not 11:40:45  interest that the security pays. 11:40:47  I do know that there were digital 11:40:48  asset market participants that would pay 11:40:53  short sell lending fees or if you would 11:40:56  lend your assets to them, they would pay you 11:41:01  interest on it, but that's a separate 11:41:03  transaction outside of the transaction with 11:41:05  Ripple, outside of the interest that Ripple 11:41:08  would pay on its XRP tokens. And clearly, 11:41:13  from what I know about other cases I've been 11:41:19  involved in, things like short sale lending 11:41:21  fees are not what the statute meant when it 11:41:25  said income received thereon. What's been 11:41:31  interpreted in other cases is that it's 11:41:35	2 Q. I was about to propose the same thing. 11:43:02 3 MR. MICHAELSON: We can go off the 11:43:04 4 record. 11:43:07 5 VIDEOGRAPHER: The time is 11:43. 11:43:07 6 We're off the record. 11:43:10 8 VIDEOGRAPHER: We are back on the 11:59:11 9 record. The time is 11:59. 11:59:15 10 BY MR. MICHAELSON: 11:59:18 11 Q. Dr. Feinstein, I'd like to direct your 11:59:21 12 attention to Page 5 of Exhibit 10, your 11:59:24 13 report, specifically Paragraph 20 which I 11:59:30 14 understand is the paragraph that sets forth 11:59:36 15 the methodology for calculating damages 11:59:38 16 for an XRP purchaser who has not sold, 11:59:40 17 correct? 11:59:46 18 A. Yes. 11:59:46 19 Q. So referring to the formula here, it says, 11:59:46 20 "the damages for class members who purchased 11:59:52 21 but never sold XRP equals," then you start 11:59:55 22 with a dollar amount paid at the time of 11:59:59 23 purchase. Do you see that? 12:00:01

1 the dollar amount paid, what are you 12:00:05	1 A. It's the arithmetic form of what's in 12:02:54
2 referring to there? 12:00:09	2 the statute. It's the arithmetic formula 12:03:03
3 A. The dollar value of the consideration paid. 12:00:10	3 form of the statute. 12:03:08
4 Q. So, again, if the purchaser used Bitcoin 12:00:18	4 Q. There are certain leaps between the statutory 12:03:10
5 or ETHE or Tether, you're proposing here 12:00:22	5 language and the formula expressed in 12:03:13
6 to convert that into dollars based on the 12:00:28	6 Paragraph 20, right? 12:03:17
7 exchange rate 12:00:32	7 MR. SPEAR: Objection to form. 12:03:18
8 A. Yes. 12:00:35	8 A. If there's some interpretation here, what 12:03:19
9 Q as of the time of the purchase? 12:00:35	9 I want to say about that is I think the 12:03:22
10 A. Yes. 12:00:37	10 interpretation is correct. The 12:03:23
11 Q. And if that purchaser had in the real world 12:00:38	11 interpretation is consistent with other 12:03:25
just converted dollars to Bitcoin and then 12:00:48	12 cases I've done that have been validated 12:03:27
13 used that Bitcoin to make this purchase, 12:00:53	by the parties or by the courts. And if 12:03:29
would you use that purchaser's real-world 12:00:55	in this particular case a slightly different 12:03:33
15 exchange rate or the general market exchange 12:00:58	15 interpretation of one or more of the 12:03:36
16 rate for Bitcoin to dollar as of the time 12:01:06	words applies, it would still be a common 12:03:38
17 of the purchase of XRP? 12:01:09	damage methodology given the alternative 12:03:41
MR. SPEAR: Objection to form. 12:01:13	18 interpretation. I believe this is the 12:03:44
19 Objection, scope and asked and answered. Go 12:01:14	19 correct way to present the statute as a 12:03:46
20 ahead. 12:01:16	20 mathematical formula, but if there has to 12:03:52
21 A. My understanding is that the data sources 12:01:16	be some adjustment to it of the kind you're 12:03:56
22 like Bloomberg take into account actual 12:01:18	describing, we would still have a common 12:03:59
23 transactions, so I think the person's actual 12:01:21	23 formula for all class members. 12:04:01
24 transaction would be reflected in the data 12:01:25	24 Q. Do you know if the proposed class here 12:04:03
25 that's available, so they're not really 12:01:28 Page 82	25 includes foreign purchasers? By that I mean 12:04:05 Page 84
1 mutually exclusive. 12:01:33	1 a purchaser well, for purposes of 12:04:10
2 Q. But they're not going to be identical, 12:01:34	2 my question here, I'm referring to, for 12:04:14
3 right? 12:01:37	3 example, a foreigner living in a different 12:04:17
4 MR. SPEAR: Objection, scope. 12:01:38	4 country and trading XRP from a foreign 12:04:21
5 Objection, form. 12:01:39	5 country on a foreign exchange. 12:04:25
6 A. They might not be. How they did in their 12:01:40	6 MR. SPEAR: Objection to form. 12:04:27
7 own individual transaction is not necessarily 12:01:45	7 Go ahead. 12:04:29
8 better than calculating the value of the 12:01:51	8 A. My understanding is that plaintiff's counsel 12:04:29
9 consideration paid using a market valuation, 12:01:56	9 wishes to include all investors into whom 12:04:31
a market metric, a market exchange rate 12:02:00	10 XRP was solicited regardless of where they 12:04:35
11 metric. 12:02:04	bought it. But, again, if I'm wrong about 12:04:38
12 Q. Do you think, though, that it's important 12:02:05	12 that, the record speaks for itself. 12:04:41
for your model to capture the purchaser's 12:02:11	13 Q. So the putative class, then, would include, 12:04:43
14 actual gain or loss in the real world? 12:02:17	14 for example, a Swiss person who converts 12:04:53
MR. SPEAR: Objection, form. 12:02:21	15 Swiss francs into Bitcoin and then uses that 12:04:55
16 A. Yeah, I believe it does. I just want to 12:02:24	16 Bitcoin to purchase XRP, correct? 12:04:59
also say it's not my model. I'm presenting 12:02:34	17 MR. SPEAR: Objection, calls for 12:05:04
that this model exists and is used and in 12:02:37	18 speculation. 12:05:06
19 the statute. I'm just explaining what's in 12:02:40	19 A. Perhaps. That's a hypothetical. It's not 12:05:06
20 the statute. 12:02:45	20 entirely unrealistic, but it's not entirely 12:05:10
21 Q. The statute is you quote the statute in 12:02:45	21 complete. 12:05:14
I control of the cont	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
22 Paragraph 17, right? 12:02:48	22 Q. If you're applying the methodology expressed 12:05:14
23 A. Yes. 12:02:49	22 Q. If you're applying the methodology expressed 12:05:14 23 in Paragraph 20 to that purchaser, how would 12:05:17
23 A. Yes. 12:02:49 24 Q. But Paragraph 20 is the formula is not 12:02:49	
23 A. Yes. 12:02:49	23 in Paragraph 20 to that purchaser, how would 12:05:17

1	A. The dollar value of the consideration paid. 12:05:24	1	A. You're gratuitous to my model. If there's 12:08:21
2	If the transaction was Bitcoin for XRP, it 12:05:27	2	a determination by the court that the 12:08:26
3	would be the dollar value of the XRP that 12:05:32	3	translations from form of consideration 12:08:27
4	was conveyed in exchange for the XRP. 12:05:36	4	to value of consideration take place at the 12:08:31
5	Q. Irrespective of whether the purchaser was 12:05:39	5	time of the transaction, then in your 12:08:35
6	located in a foreign country? 12:05:54	6	hypothetical they could, that would calculate 12:08:37
7	A. Correct. 12:05:57	7	as being an actual loss, it could 12:08:40
8	Q. And irrespective of whether that purchaser 12:05:58	8	hypothetically, depending on the numbers 12:08:43
9	had acquired the Bitcoin using a foreign 12:06:01	9	involved, be a loss. And that would make 12:08:44
10	currency? 12:06:04	10	some sense because over that point in time, 12:08:47
11	A. Correct. This is an American federal statute 12:06:05	11	not only did the Bitcoin not only was 12:08:49
12	and a California statute. Damages, I believe 12:06:14	12	the Bitcoin received not really the same 12:08:52
13	it would be expected the damages would be 12:06:19	13	as the Bitcoin paid because the Bitcoin 12:08:55
14	calculated in terms of dollars. 12:06:21	14	would have depreciated over that time and 12:08:58
15	Q. Okay. I just want to be clear. If that 12:06:22	15	this particular investor would be receiving 12:09:01
16	purchaser was using an exchange that charged 12:06:26	16	depreciated Bitcoin whereas they paid a 12:09:03
17	some sort of transaction fee, not a fee baked 12:06:29	17	higher value of Bitcoin initially, but 12:09:06
18	into the bid-ask spread, but a transaction 12:06:34	18	over that point in time XRP would have 12:09:09
19	fee, would that fee be factored into the 12:06:39	19	necessarily had to have fallen in value, 12:09:11
20	damages? 12:06:43	20	too, in terms of dollars. 12:09:13
21	MR. SPEAR: Objection, asked and 12:06:43	21	So what I want to say here is this 12:09:14
22	answered. 12:06:45	22	interpretation in your hypothetical would 12:09:16
23	A. I think ultimately that's a legal question. 12:06:45	23	be a realistic and reasonable measure of 12:09:27
24	I mean, I don't in the cases I've been 12:06:49	24	damages, but what I want to say is that the 12:09:30
25	involved in, if we're talking about a bid-ask 12:06:51	25	legal experts or the court or whoever is 12:09:32
	Page 86		Page 88
1	spread, to the extent that a bid-ask 12:06:55	1	adjudicating exactly that question about 12:09:36
2	spread represents a transaction fee, it 12:07:00	2	when the translation should take place 12:09:36
3	is included in the damage computation. I 12:07:03	3	should decide alternatively that the 12:09:39
4	don't know all the case law and statutory 12:07:08	4	translation should take place at the time 12:09:40
5	law about transaction about commissions, 12:07:10	5	of the settlement or of a jury verdict rather 12:09:42
6	about explicit commissions. I would just 12:07:14	6	than at the time of the transaction. That 12:09:47
7	defer to the legal experts on that. 12:07:17	7	methodology would now not be that 12:09:48
8	Q. Under your model, is it conceivable that 12:07:18	8	methodology would now still be common for 12:09:53
9	someone could take one Bitcoin, use it to 12:07:21	9	all class members. It would be a little bit 12:09:56
10	buy XRP, hold that XRP for a period of time, 12:07:28	10	different from the formulas in my report. 12:09:59
11	sell the XRP for one Bitcoin and suffer a 12:07:31	11	It would be easy to modify the formulas to 12:10:01
12	loss? 12:07:35	12	represent that alternative interpretation, 12:10:01
13	A. That's possible, sure. 12:07:37	13	and it would still be a common methodology 12:10:06
14	Q. How could that happen? 12:07:39	14	for all class members encompassing a legal 12:10:08
15	A. Well, the form of the consideration might 12:07:40	15	determination that the translation takes 12:10:10
16	be the same, but the value paid and the 12:07:44	16	place at a later date. 12:10:14
17	value received could be different if XRP 12:07:49	17	Q. So you're a professor of finance, right? 12:10:15
18	fell in value over that point in time, over 12:07:54	18	A. Yes. 12:10:19
19	that interval in time. 12:07:58	19	Q. And you teach courses on investment? 12:10:19
20	Q. So could it even be the case, then, that 12:08:01	20	A. Yes. 12:10:22
21	someone could take one Bitcoin, buy XRP, 12:08:06	21	Q. And you testified earlier that investment 12:10:22
22	hold the XRP for a period of time, sell the 12:08:09	22	is an area of your teaching and research, 12:10:25
23	XRP for more than one Bitcoin, 1.1 Bitcoin, 12:08:13	23	correct? 12:10:29
			A. Yes. 12:10:29
24	let's say, but under your model that 12:08:17	2-7	11. 105.
1	purchaser could have a loss? 12:08:19	25	Q. So as a professor of finance that focuses 12:10:30

1	on investment, do you think that what 12:10:37	1	perspective. But from the economic 12:13:22
2	is your opinion on what best captures a 12:10:43	2	perspective, if their economic position is 12:13:24
3	person's gain or loss in a sale of XRP 12:10:46	3	worse than it previously was because they 12:13:27
4	if strike that. Start over. 12:10:52	4	were paid in, they received back depreciated 12:13:32
5	Were you instructed to interpret 12:11:01	5	Bitcoin whereas they are worth less than 12:13:36
6	the term "consideration" in the statute as 12:11:03	6	the Bitcoins they originally paid, it sounds 12:13:39
7	the value of consideration paid? 12:11:07	7	to me like a loss. 12:13:42
8	A. Instructed by counsel? 12:11:11	8	It's also important to emphasize 12:13:53
9	Q. Instructed by counsel, yes. Was that a 12:11:12	9	that in that hypothetical, in order for that 12:13:55
10	choice? 12:11:15	10	to happen, the XRP that would have been held 12:13:58
11	MR. SPEAR: I'm a little bit 12:11:16	11	over that holding period also would have 12:14:02
12	communications with counsel 12:11:18	12	had to have fallen in dollar value. So in 12:14:05
13	MR. MICHAELSON: Usually if counsel 12:11:20	13	order for the 1.1 Bitcoins received back to 12:14:09
14	instructs an expert to follow certain 12:11:22	14	be worth less than the one Bitcoin originally 12:14:13
15	formulas, it's usually not privileged. It's 12:11:24	15	paid, over that holding period the XRP must 12:14:16
16	usually identified in the report. 12:11:27	16	also have fallen in value in dollar terms 12:14:20
17	MR. SPEAR: It is identified, but 12:11:29	17	over that holding period. 12:14:22
18	go ahead. 12:11:30	18	Q. What is the basis for your decision to 12:14:24
19	A. No. 12:11:32	19	translate all of this into U.S. dollars? 12:14:30
20	Q. Okay. So it's your choice to use the value 12:11:32	20	A. Well, every case I've I don't recall 12:14:33
21	of the consideration paid in these formulas 12:11:41	21	the case that I previously had been involved 12:14:39
22	presented in Paragraphs 19 and 20, right? 12:11:44	22	in where the translation was done at a 12:14:41
23	A. Yes, but I do want to emphasize that my 12:11:47	23	different point in time, but more than that, 12:14:43
24	opinion about there being a common 12:11:51	24	the statute itself says with interest 12:14:45
25	methodology would accommodate a different 12:11:53	25	thereon. In order to calculate interest 12:14:52
	Page 90		Page 92
1	interpretation as to what consideration 12:11:55	1	thereon, the most straightforward way to 12:14:56
2	meant. 12:11:57	2	do that would be an interpretation that 12:14:59
3	Q. Okay. But I want to explore whether that 12:11:57	3	it's the value of the consideration that 12:15:02
4	varies depending on the type of investor, 12:12:00	4	must be evaluated at the time of the 12:15:05
5	okay? So if you've got and I'm asking, 12:12:03	5	purchase. 12:15:09
6	you're a professor of finance and investment. 12:12:08	6	But, again, I feel a little 12:15:09
7	So if you have an investor who has converted 12:12:11	7	uncomfortable. It feels like we're 12:15:12
8	all their savings into Bitcoin and they've 12:12:14	8	straddling right up to the line of economics 12:15:12
9	been in Bitcoin since 2014 and they use one 12:12:18	9	versus law, and I'm not a legal expert. If 12:15:17
10	Bitcoin to buy XRP and they hold it and they 12:12:21	10	there's a legal determination that this 12:15:17
11	sell that XRP for 1.1 Bitcoin. 12:12:24	11	statute, that the excerpt in Paragraph 17 12:15:20
12	A. Okay. 12:12:29	12	has to be interpreted differently, I'm fine 12:15:24
13	Q. Isn't it fair to say that that purchaser of 12:12:29	13	with modifying the formula, presenting very 12:15:29
14	XRP experienced a gain? 12:12:38	14	slightly different mathematical formulas 12:15:29
15	A. Not necessarily. If the Bitcoin they 12:12:47	15	in 19 and 20, and my opinion, my conclusion 12:15:34
16	received is worth less than the Bitcoin they 12:12:50	16	in Paragraph 16 will remain absolutely 12:15:36
17	paid, they suffered a loss. 12:12:52	17	unchanged because even with that 12:15:38
18		18	modification, it would still be a common 12:15:41
19	chosen to put all their savings into Bitcoin 12:13:01	19	damage methodology for all class members. 12:15:42
20	and uses a piece of that Bitcoin to buy XRP 12:13:06	20	
21	and then sells the XRP for more Bitcoin they 12:13:12	21	legal opinion. I'm asking for the economic 12:15:49
22	paid for, in your view, that person could 12:13:16	22	rationale for translating everything into 12:15:53
23	still have a loss? 12:13:17	23	dollars even for purchasers of XRP who 12:15:57
24		24	have converted their, all their savings and 12:16:02
25	qualified to answer it from a legal 12:13:21	25	investments into virtual currencies. 12:16:07
	Page 91		Page 93

1			
1	MR. SPEAR: Objection, asked and 12:16:10	1	cite are "United States." This is United 12:19:07
2	answered. Was there a question there? 12:16:11	2	States law, it's United States courts. 12:19:09
3	I'm sorry. 12:16:13	3	My understanding is that I was asked to 12:19:11
4	A. The rationale, if the question is what's 12:16:15	4	calculate dollar damages. If there's a 12:19:13
5	the rationale, the rationale is if the job 12:16:17	5	determination that all damages should be 12:19:18
6	is to calculate damages in terms of 12:16:19	6	calculated in some other currency or some 12:19:20
7	dollars, it makes most sense to calculate 12:16:21	7	other units, I can do it, I would take 12:19:26
8	consideration paid in terms of dollars, 12:16:24	8	that instruction and complete the task. It 12:19:31
9	consideration received in terms of dollars 12:16:26	9	would still be a common damage methodology 12:19:36
10	and the interest earned thereon also in 12:16:29	10	for all investors. It would be a different 12:19:39
11	terms of dollars. I mean, a common numerare, 12:16:33	11	numerare. 12:19:45
12	that's what they teach in economics school 12:16:38	12	If there's a legal determination 12:19:46
13	and graduate school. That's the purpose of 12:16:40	13	that an alternative the basis for my, 12:19:49
14	there being numerares, so they can do those 12:16:45	14	essentially, assumption that the task was 12:19:51
15	calculations. 12:16:47	15	to propose a formula for calculating dollar 12:19:54
16	Q. I'm just wondering why I'm not familiar 12:16:47	16	damages is the fact that it's United States 12:19:57
17	with the term "numerare." What is that term? 12:16:53	17	statute, United States courts and United 12:19:59
18	A. Common currency. Currency has a lot of 12:16:55	18	States company, but I realize that might be 12:20:03
19	different meanings at this table, so 12:16:58	19	straddling over the line into law rather 12:20:08
20	numerare, it's synonymous. Numerare is 12:17:02	20	than economics. And if I'm instructed by 12:20:12
21	another unit of a count for measuring value. 12:17:03	21	the legal experts or the court to do it a 12:20:14
22	You need a common unit of a count for 12:17:05	22	different way, I certainly could and it would 12:20:17
23	measuring value in order to calculate 12:17:05	23	be common using that other methodology, too. 12:20:21
24	damages. It's an American court. I think 12:17:10	24	Q. Well, let's explore that other methodology 12:20:23
25	dollars is the appropriate numerare. 12:17:12	25	for a moment. Another methodology might 12:20:28
	Page 94		Page 96
1	Q. Look, obviously what I'm questioning is 12:17:14	1	say if you're going into and out of XRP 12:20:35
1 2	Q. Look, obviously what I'm questioning is 12:17:14 whether dollars is the appropriate numerare 12:17:22	1 2	<del>-</del>
			say if you're going into and out of XRP 12:20:35
2	whether dollars is the appropriate numerare 12:17:22	2	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41
2	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23	2 3	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41 whether you gained or lost in Swiss francs. 12:20:45
2 3 4	whether dollars is the appropriate numerare 12:17:22 for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31	2 3 4	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41 whether you gained or lost in Swiss francs. 12:20:45 If you go into or out of XRP with Bitcoin, 12:20:47
2 3 4 5	whether dollars is the appropriate numerare 12:17:22 for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35	2 3 4 5	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41 whether you gained or lost in Swiss francs. 12:20:45 If you go into or out of XRP with Bitcoin, 12:20:47 then what matters is whether you gained 12:20:51
2 3 4 5 6	whether dollars is the appropriate numerare 12:17:22 for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36	2 3 4 5 6	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41 whether you gained or lost in Swiss francs. 12:20:45 If you go into or out of XRP with Bitcoin, 12:20:47 then what matters is whether you gained 12:20:51 or lost Bitcoin. Is it your testimony that 12:20:53
2 3 4 5 6 7	whether dollars is the appropriate numerare 12:17:22 for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43	2 3 4 5 6 7 8	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41 whether you gained or lost in Swiss francs. 12:20:45 If you go into or out of XRP with Bitcoin, 12:20:47 then what matters is whether you gained 12:20:51 or lost Bitcoin. Is it your testimony that 12:20:53 that would be an application of a common 12:20:55
2 3 4 5 6 7 8 9	whether dollars is the appropriate numerare 12:17:22 for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46	2 3 4 5 6 7 8	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41 whether you gained or lost in Swiss francs. 12:20:45 If you go into or out of XRP with Bitcoin, 12:20:47 then what matters is whether you gained 12:20:51 or lost Bitcoin. Is it your testimony that 12:20:53 that would be an application of a common 12:20:55 methodology? 12:20:59
2 3 4 5 6 7 8 9	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49	2 3 4 5 6 7 8 9	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41 whether you gained or lost in Swiss francs. 12:20:45 If you go into or out of XRP with Bitcoin, 12:20:47 then what matters is whether you gained 12:20:51 or lost Bitcoin. Is it your testimony that 12:20:53 that would be an application of a common 12:20:55 methodology? 12:20:59  A. Well, now you're specifically asking me 12:21:05
2 3 4 5 6 7 8 9 10	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49 your basis for importing the U.S. dollars 12:17:53	2 3 4 5 6 7 8 9 10	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41 whether you gained or lost in Swiss francs. 12:20:45 If you go into or out of XRP with Bitcoin, 12:20:47 then what matters is whether you gained 12:20:51 or lost Bitcoin. Is it your testimony that 12:20:53 that would be an application of a common 12:20:55 methodology? 12:20:59 A. Well, now you're specifically asking me 12:21:05 if what you described is a common 12:21:08
2 3 4 5 6 7 8 9 10 11 12	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49 your basis for importing the U.S. dollars 12:17:53 into 17. That's what I'm trying to explore, 12:17:57	2 3 4 5 6 7 8 9 10	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41 whether you gained or lost in Swiss francs. 12:20:45 If you go into or out of XRP with Bitcoin, 12:20:47 then what matters is whether you gained 12:20:51 or lost Bitcoin. Is it your testimony that 12:20:53 that would be an application of a common 12:20:55 methodology? 12:20:59  A. Well, now you're specifically asking me 12:21:05 if what you described is a common 12:21:08 methodology, and that's a legal question. 12:21:10
2 3 4 5 6 7 8 9 10 11 12 13	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49 your basis for importing the U.S. dollars 12:17:53 into 17. That's what I'm trying to explore, 12:17:57 even where we've got purchasers who are 12:18:08	2 3 4 5 6 7 8 9 10 11 12	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41 whether you gained or lost in Swiss francs. 12:20:45 If you go into or out of XRP with Bitcoin, 12:20:47 then what matters is whether you gained 12:20:51 or lost Bitcoin. Is it your testimony that 12:20:53 that would be an application of a common 12:20:55 methodology? 12:20:59  A. Well, now you're specifically asking me 12:21:05 if what you described is a common 12:21:08 methodology, and that's a legal question. 12:21:10 That's a legal determination. As an 12:21:13
2 3 4 5 6 7 8 9 10 11 12 13 14	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49 your basis for importing the U.S. dollars 12:17:53 into 17. That's what I'm trying to explore, 12:17:57 even where we've got purchasers who are 12:18:08 Swiss and using Swiss francs and not dollars. 12:18:12	2 3 4 5 6 7 8 9 10 11 12 13	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41 whether you gained or lost in Swiss francs. 12:20:45 If you go into or out of XRP with Bitcoin, 12:20:47 then what matters is whether you gained 12:20:51 or lost Bitcoin. Is it your testimony that 12:20:53 that would be an application of a common 12:20:55 methodology? 12:20:59  A. Well, now you're specifically asking me 12:21:05 if what you described is a common 12:21:08 methodology, and that's a legal question. 12:21:10 That's a legal determination. As an 12:21:13 economist, I believe I would go so far as 12:21:16
2 3 4 5 6 7 8 9 10 11 12 13 14 15	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49 your basis for importing the U.S. dollars 12:17:53 into 17. That's what I'm trying to explore, 12:17:57 even where we've got purchasers who are 12:18:08 Swiss and using Swiss francs and not dollars. 12:18:12 So as an economist setting aside 12:18:16	2 3 4 5 6 7 8 9 10 11 12 13 14	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41 whether you gained or lost in Swiss francs. 12:20:45 If you go into or out of XRP with Bitcoin, 12:20:47 then what matters is whether you gained 12:20:51 or lost Bitcoin. Is it your testimony that 12:20:53 that would be an application of a common 12:20:55 methodology? 12:20:59 A. Well, now you're specifically asking me 12:21:05 if what you described is a common 12:21:08 methodology, and that's a legal question. 12:21:10 That's a legal determination. As an 12:21:13 economist, I believe I would go so far as 12:21:16 to say if you were dead set on proposing a 12:21:18
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49 your basis for importing the U.S. dollars 12:17:53 into 17. That's what I'm trying to explore, 12:17:57 even where we've got purchasers who are 12:18:08 Swiss and using Swiss francs and not dollars. 12:18:12 So as an economist setting aside 12:18:16 the legal determination, as an economist, 12:18:31	2 3 4 5 6 7 8 9 10 11 12 13 14 15	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41 whether you gained or lost in Swiss francs. 12:20:45 If you go into or out of XRP with Bitcoin, 12:20:47 then what matters is whether you gained 12:20:51 or lost Bitcoin. Is it your testimony that 12:20:53 that would be an application of a common 12:20:55 methodology? 12:20:59  A. Well, now you're specifically asking me 12:21:05 if what you described is a common 12:21:08 methodology, and that's a legal question. 12:21:10 That's a legal determination. As an 12:21:13 economist, I believe I would go so far as 12:21:16 to say if you were dead set on proposing a 12:21:21 model that wasn't common, you probably could 12:21:21
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49 your basis for importing the U.S. dollars 12:17:53 into 17. That's what I'm trying to explore, 12:17:57 even where we've got purchasers who are 12:18:08 Swiss and using Swiss francs and not dollars. 12:18:12 So as an economist setting aside 12:18:16 the legal determination, as an economist, 12:18:31 why is dollar the right baseline for a Swiss 12:18:34	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	say if you're going into and out of XRP 12:20:35 with Swiss francs, then what matters is 12:20:41 whether you gained or lost in Swiss francs. 12:20:45 If you go into or out of XRP with Bitcoin, 12:20:47 then what matters is whether you gained 12:20:51 or lost Bitcoin. Is it your testimony that 12:20:53 that would be an application of a common 12:20:55 methodology? 12:20:59  A. Well, now you're specifically asking me 12:21:05 if what you described is a common 12:21:08 methodology, and that's a legal question. 12:21:10 That's a legal determination. As an 12:21:13 economist, I believe I would go so far as 12:21:16 to say if you were dead set on proposing a 12:21:18 model that wasn't common, you probably could 12:21:21 come up with a model that's not common. 12:21:24
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49 your basis for importing the U.S. dollars 12:17:53 into 17. That's what I'm trying to explore, 12:17:57 even where we've got purchasers who are 12:18:08 Swiss and using Swiss francs and not dollars. 12:18:12 So as an economist setting aside 12:18:16 the legal determination, as an economist, 12:18:31 why is dollar the right baseline for a Swiss 12:18:34 person or someone who's converted all their 12:18:39	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	say if you're going into and out of XRP  12:20:35  with Swiss francs, then what matters is 12:20:41  whether you gained or lost in Swiss francs.  12:20:45  If you go into or out of XRP with Bitcoin, 12:20:47  then what matters is whether you gained 12:20:51  or lost Bitcoin. Is it your testimony that 12:20:53  that would be an application of a common 12:20:55  methodology?  12:20:59  A. Well, now you're specifically asking me 12:21:05  if what you described is a common 12:21:08  methodology, and that's a legal question. 12:21:10  That's a legal determination. As an 12:21:13  economist, I believe I would go so far as 12:21:16  to say if you were dead set on proposing a 12:21:21  model that wasn't common, you probably could 12:21:21  come up with a model that's not common. 12:21:24  My opinion is that you certainly 12:21:27
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49 your basis for importing the U.S. dollars 12:17:53 into 17. That's what I'm trying to explore, 12:17:57 even where we've got purchasers who are 12:18:08 Swiss and using Swiss francs and not dollars. 12:18:12 So as an economist setting aside 12:18:16 the legal determination, as an economist, 12:18:31 why is dollar the right baseline for a Swiss 12:18:34 person or someone who's converted all their 12:18:39 assets into Bitcoin? 12:18:42	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	say if you're going into and out of XRP  12:20:35  with Swiss francs, then what matters is 12:20:41  whether you gained or lost in Swiss francs.  12:20:45  If you go into or out of XRP with Bitcoin, 12:20:47  then what matters is whether you gained 12:20:51  or lost Bitcoin. Is it your testimony that 12:20:53  that would be an application of a common 12:20:55  methodology? 12:20:59  A. Well, now you're specifically asking me 12:21:05  if what you described is a common 12:21:08  methodology, and that's a legal question. 12:21:10  That's a legal determination. As an 12:21:13  economist, I believe I would go so far as 12:21:18  model that wasn't common, you probably could 12:21:21  come up with a model that's not common. 12:21:24  My opinion is that you certainly 12:21:29
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49 your basis for importing the U.S. dollars 12:17:53 into 17. That's what I'm trying to explore, 12:17:57 even where we've got purchasers who are 12:18:08 Swiss and using Swiss francs and not dollars. 12:18:12 So as an economist setting aside 12:18:16 the legal determination, as an economist, 12:18:31 why is dollar the right baseline for a Swiss 12:18:34 person or someone who's converted all their 12:18:39 assets into Bitcoin? 12:18:43 Objection, form. And objection, asked and 12:18:45	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	say if you're going into and out of XRP  12:20:35  with Swiss francs, then what matters is 12:20:41  whether you gained or lost in Swiss francs.  12:20:45  If you go into or out of XRP with Bitcoin, 12:20:47  then what matters is whether you gained 12:20:51  or lost Bitcoin. Is it your testimony that 12:20:53  that would be an application of a common 12:20:55  methodology? 12:20:59  A. Well, now you're specifically asking me if what you described is a common 12:21:08  methodology, and that's a legal question. 12:21:10  That's a legal determination. As an 12:21:13  economist, I believe I would go so far as 12:21:16  to say if you were dead set on proposing a 12:21:18  model that wasn't common, you probably could 12:21:21  come up with a model that's not common. 12:21:24  My opinion is that you certainly 12:21:27  can come up with a better model that is 12:21:32  about well, I don't need to I don't 12:21:34
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49 your basis for importing the U.S. dollars 12:17:53 into 17. That's what I'm trying to explore, 12:17:57 even where we've got purchasers who are 12:18:08 Swiss and using Swiss francs and not dollars. 12:18:12 So as an economist setting aside 12:18:16 the legal determination, as an economist, 12:18:31 why is dollar the right baseline for a Swiss 12:18:34 person or someone who's converted all their 12:18:39 assets into Bitcoin? 12:18:42  MR. SPEAR: Objection, scope. 12:18:43 Objection, form. And objection, asked and 12:18:48 answered. Go ahead. 12:18:48	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	say if you're going into and out of XRP  with Swiss francs, then what matters is  12:20:41  whether you gained or lost in Swiss francs.  If you go into or out of XRP with Bitcoin,  then what matters is whether you gained  or lost Bitcoin. Is it your testimony that  12:20:51  or lost Bitcoin. Is it your testimony that  12:20:53  that would be an application of a common  that would be an application of a common  12:20:55  methodology?  12:20:59  A. Well, now you're specifically asking me  if what you described is a common  12:21:08  methodology, and that's a legal question.  That's a legal determination. As an  12:21:13  economist, I believe I would go so far as  12:21:16  to say if you were dead set on proposing a  12:21:18  model that wasn't common, you probably could  12:21:21  come up with a model that's not common.  12:21:24  My opinion is that you certainly  12:21:27  can come up with a better model that is  12:21:32  about well, I don't need to I don't  12:21:37
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49 your basis for importing the U.S. dollars 12:17:53 into 17. That's what I'm trying to explore, 12:17:57 even where we've got purchasers who are 12:18:08 Swiss and using Swiss francs and not dollars. 12:18:12 So as an economist setting aside 12:18:16 the legal determination, as an economist, 12:18:31 why is dollar the right baseline for a Swiss 12:18:34 person or someone who's converted all their 12:18:39 assets into Bitcoin? 12:18:42 MR. SPEAR: Objection, scope. 12:18:43 Objection, form. And objection, asked and 12:18:45 answered. Go ahead. 12:18:56	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	say if you're going into and out of XRP  with Swiss francs, then what matters is 12:20:41  whether you gained or lost in Swiss francs.  If you go into or out of XRP with Bitcoin, 12:20:47  then what matters is whether you gained 12:20:51  or lost Bitcoin. Is it your testimony that 12:20:53  that would be an application of a common 12:20:55  methodology? 12:20:59  A. Well, now you're specifically asking me 12:21:05  if what you described is a common 12:21:08  methodology, and that's a legal question. 12:21:10  That's a legal determination. As an 12:21:13  economist, I believe I would go so far as 12:21:18  model that wasn't common, you probably could 12:21:21  come up with a model that's not common. 12:21:24  My opinion is that you certainly 12:21:27  can come up with a better model that is 12:21:32  about well, I don't need to I don't 12:21:37  the model you described is common or not. 12:21:40
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49 your basis for importing the U.S. dollars 12:17:53 into 17. That's what I'm trying to explore, 12:17:57 even where we've got purchasers who are 12:18:08 Swiss and using Swiss francs and not dollars. 12:18:12 So as an economist setting aside 12:18:16 the legal determination, as an economist, 12:18:31 why is dollar the right baseline for a Swiss 12:18:34 person or someone who's converted all their 12:18:39 assets into Bitcoin? 12:18:42 MR. SPEAR: Objection, scope. 12:18:43 Objection, form. And objection, asked and 12:18:48 A. I really think that's more of a legal 12:18:56 question than an economics question. I 12:18:58	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	say if you're going into and out of XRP  with Swiss francs, then what matters is 12:20:41  whether you gained or lost in Swiss francs. 12:20:45  If you go into or out of XRP with Bitcoin, 12:20:47  then what matters is whether you gained 12:20:51  or lost Bitcoin. Is it your testimony that 12:20:53  that would be an application of a common 12:20:55  methodology? 12:20:59  A. Well, now you're specifically asking me 12:21:08  methodology, and that's a legal question. 12:21:10  That's a legal determination. As an 12:21:13  economist, I believe I would go so far as 12:21:16  to say if you were dead set on proposing a 12:21:21  come up with a model that's not common. 12:21:24  My opinion is that you certainly 12:21:27  can come up with a better model that is 12:21:32  about well, I don't need to I don't 12:21:37  the model you described is common or not. 12:21:40  That's really a legal determination, but 12:21:42
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	whether dollars is the appropriate numerare for someone who has converted their dollars 12:17:23 into Bitcoin or other digital currencies 12:17:31 and is buying and selling from those 12:17:35 currencies. I'm looking at your report, 12:17:36 Paragraph 17. It has the excerpt from the 12:17:43 statute and the statute doesn't say U.S. 12:17:46 dollars anywhere, so I'm trying to understand 12:17:49 your basis for importing the U.S. dollars 12:17:53 into 17. That's what I'm trying to explore, 12:17:57 even where we've got purchasers who are 12:18:08 Swiss and using Swiss francs and not dollars. 12:18:12 So as an economist setting aside 12:18:16 the legal determination, as an economist, 12:18:31 why is dollar the right baseline for a Swiss 12:18:34 person or someone who's converted all their 12:18:39 assets into Bitcoin? 12:18:42 MR. SPEAR: Objection, scope. 12:18:43 Objection, form. And objection, asked and 12:18:45 answered. Go ahead. 12:18:56	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	say if you're going into and out of XRP  with Swiss francs, then what matters is 12:20:41  whether you gained or lost in Swiss francs.  If you go into or out of XRP with Bitcoin, 12:20:47  then what matters is whether you gained 12:20:51  or lost Bitcoin. Is it your testimony that 12:20:53  that would be an application of a common 12:20:55  methodology? 12:20:59  A. Well, now you're specifically asking me 12:21:05  if what you described is a common 12:21:08  methodology, and that's a legal question. 12:21:10  That's a legal determination. As an 12:21:13  economist, I believe I would go so far as 12:21:18  model that wasn't common, you probably could 12:21:21  come up with a model that's not common. 12:21:24  My opinion is that you certainly 12:21:27  can come up with a better model that is 12:21:32  about well, I don't need to I don't 12:21:37  the model you described is common or not. 12:21:40

1 Q. Do you think that how purchasers of XRP 12:21:52	1 Q. Do you agree that crypto enthusiasts who 12:24:45
2 calculated their taxes on a gain or loss of 12:22:11	2 are all in on virtual currencies might 12:24:51
3 a sale should factor into the determination 12:22:16	3 not see it that way? 12:24:54
4 into whether they had a gain or loss? 12:22:19	4 A. I can't speak to how they see it. 12:24:54
5 A. Are you saying that like net of taxes 12:22:26	5 Q. Turning to Paragraph 21, you say, "the 12:24:57
6 whether there was a gain or loss or just 12:22:28	6 amounts paid when the XRP units were 12:25:03
7 whether they submitted tax forms that were 12:22:30	7 purchased can be determined from trading 12:25:08
8 denominated in anything besides dollars? 12:22:33	8 records or publicly available XRP price 12:25:11
9 Q. Take the person who bought the XRP for one 12:22:36	9 records." Do you see that? 12:25:14
10 Bitcoin and sold it for 1.1 Bitcoin. If 12:22:41	10 A. Yes. 12:25:15
11 they view that as a gain, would that affect 12:22:48	11 Q. What do you mean by "trading records"? 12:25:16
12 your view of whether that person experienced 12:22:52	12 A. Well, documentation of what they paid, the 12:25:18
13 a gain or loss? 12:22:55	13 form of what they paid and documentation 12:25:27
14 A. I'm not a tax accountant. I don't know 12:22:57	14 of what they paid. 12:25:42
	15 Q. So for someone buying on an exchange, what 12:25:49
16 be for that. 12:23:01	16 form would that documentation take? 12:25:53
17 Q. Look, I'm not asking you to opine on the 12:23:01	17 A. It could take the form of a confirmation, 12:25:55
18 law. I'm not asking you to opine on taxes. 12:23:05	18 an exchange confirmation, a broker 12:25:59
19 I'm asking for you're a professor of 12:23:13	19 confirmation, a trading confirmation. 12:26:01
20 finance who focuses on investment. I assume 12:23:18	20 Q. That might show, for example, how much 12:26:03
21 that you're putting yourself and asking your 12:23:18	21 Bitcoin they paid for their XRP, right? 12:26:05
22 students to put themselves in the shoes of 12:23:20	22 A. Right. 12:26:09
23 investors making investment decisions all 12:23:20	23 Q. Would it show the value of that Bitcoin in 12:26:09
24 the time. 12:23:20	24 U.S. dollars at the time of the purchase? 12:26:17
25 A. Sure. 12:23:20	25 A. It could. 12:26:19
Page 98	Page 100
1 Q. And you're proposing here a model where 12:23:26	1 Q. It also could not? 12:26:20
2 the gain or loss that you calculate might 12:23:29	2 A. If it didn't, then you can go to publicly 12:26:24
3 differ from what the investor might think 12:23:36	3 available XRP price records to see what 12:26:30
4 about. 12:23:39	4 the dollar value of the XRP was at the 12:26:33
5 A. That's your opinion. That's not necessarily 12:23:43	5 time of purchase. 12:26:35
6 the one I share. 12:23:45	5 time of purchase. 12.20.33
6 the one i share. 12:25:43	6 Q. If that exchange if it's possible to 12:26:36
7 Q. So my question for you, though, is if that 12:23:46	
	6 Q. If that exchange if it's possible to 12:26:36
7 Q. So my question for you, though, is if that 12:23:46	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01 12 your assessment as to whether they 12:24:04	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02 12 dollars they paid and what XRP they received. 12:27:05
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01 12 your assessment as to whether they 12:24:04 13 experienced a gain or loss? 12:24:07	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02 12 dollars they paid and what XRP they received. 12:27:05 13 Q. I think what would be in the data is what, 12:27:09
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01 12 your assessment as to whether they 12:24:04 13 experienced a gain or loss? 12:24:07 14 A. I can't speak to any person's personal 12:24:09	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02 12 dollars they paid and what XRP they received. 12:27:05 13 Q. I think what would be in the data is what, 12:27:09 14 for example, if it's Bitcoin, what Bitcoin 12:27:11
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01 12 your assessment as to whether they 12:24:04 13 experienced a gain or loss? 12:24:07 14 A. I can't speak to any person's personal 12:24:09 15 beliefs. I think whether they've suffered 12:24:15	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02 12 dollars they paid and what XRP they received. 12:27:05 13 Q. I think what would be in the data is what, 12:27:09 14 for example, if it's Bitcoin, what Bitcoin 12:27:11 15 they paid, but the Bitcoin to U.S. dollar 12:27:14
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01 12 your assessment as to whether they 12:24:04 13 experienced a gain or loss? 12:24:07 14 A. I can't speak to any person's personal 12:24:09 15 beliefs. I think whether they've suffered 12:24:15 16 a gain or loss depends on the dollar value 12:24:18	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02 12 dollars they paid and what XRP they received. 12:27:05 13 Q. I think what would be in the data is what, 12:27:09 14 for example, if it's Bitcoin, what Bitcoin 12:27:11 15 they paid, but the Bitcoin to U.S. dollar 12:27:14 16 exchange rate offered on that exchange 12:27:19
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01 12 your assessment as to whether they 12:24:04 13 experienced a gain or loss? 12:24:07 14 A. I can't speak to any person's personal 12:24:09 15 beliefs. I think whether they've suffered 12:24:15 16 a gain or loss depends on the dollar value 12:24:18 17 of what they paid and the dollar value 12:24:22	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02 12 dollars they paid and what XRP they received. 12:27:05 13 Q. I think what would be in the data is what, 12:27:09 14 for example, if it's Bitcoin, what Bitcoin 12:27:11 15 they paid, but the Bitcoin to U.S. dollar 12:27:14 16 exchange rate offered on that exchange 12:27:19 17 wouldn't necessarily be on the trading 12:27:23
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01 12 your assessment as to whether they 12:24:04 13 experienced a gain or loss? 12:24:07 14 A. I can't speak to any person's personal 12:24:09 15 beliefs. I think whether they've suffered 12:24:15 16 a gain or loss depends on the dollar value 12:24:18 17 of what they paid and the dollar value 12:24:22 18 of what they received. That's how I would 12:24:24	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02 12 dollars they paid and what XRP they received. 12:27:05 13 Q. I think what would be in the data is what, 12:27:09 14 for example, if it's Bitcoin, what Bitcoin 12:27:11 15 they paid, but the Bitcoin to U.S. dollar 12:27:14 16 exchange rate offered on that exchange 12:27:19 17 wouldn't necessarily be on the trading 12:27:23 18 record, right? 12:27:26
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01 12 your assessment as to whether they 12:24:04 13 experienced a gain or loss? 12:24:07 14 A. I can't speak to any person's personal 12:24:09 15 beliefs. I think whether they've suffered 12:24:15 16 a gain or loss depends on the dollar value 12:24:18 17 of what they paid and the dollar value 12:24:22 18 of what they received. That's how I would 12:24:24 19 think about it personally. If I bought 12:24:27	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02 12 dollars they paid and what XRP they received. 12:27:05 13 Q. I think what would be in the data is what, 12:27:09 14 for example, if it's Bitcoin, what Bitcoin 12:27:11 15 they paid, but the Bitcoin to U.S. dollar 12:27:14 16 exchange rate offered on that exchange 12:27:19 17 wouldn't necessarily be on the trading 12:27:23 18 record, right? 12:27:26 19 MR. SPEAR: Are you talking about 12:27:26
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01 12 your assessment as to whether they 12:24:04 13 experienced a gain or loss? 12:24:07 14 A. I can't speak to any person's personal 12:24:09 15 beliefs. I think whether they've suffered 12:24:15 16 a gain or loss depends on the dollar value 12:24:18 17 of what they paid and the dollar value 12:24:22 18 of what they received. That's how I would 12:24:24 19 think about it personally. If I bought 12:24:27 20 XRP and paid something worth \$100 and when 12:24:28	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02 12 dollars they paid and what XRP they received. 12:27:05 13 Q. I think what would be in the data is what, 12:27:09 14 for example, if it's Bitcoin, what Bitcoin 12:27:11 15 they paid, but the Bitcoin to U.S. dollar 12:27:14 16 exchange rate offered on that exchange 12:27:19 17 wouldn't necessarily be on the trading 12:27:23 18 record, right? 12:27:26 19 MR. SPEAR: Are you talking about 12:27:27
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01 12 your assessment as to whether they 12:24:04 13 experienced a gain or loss? 12:24:07 14 A. I can't speak to any person's personal 12:24:09 15 beliefs. I think whether they've suffered 12:24:15 16 a gain or loss depends on the dollar value 12:24:18 17 of what they paid and the dollar value 12:24:22 18 of what they received. That's how I would 12:24:24 19 think about it personally. If I bought 12:24:27 20 XRP and paid something worth \$100 and when 12:24:28 21 I sold the XRP I got something worth \$90, 12:24:32	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02 12 dollars they paid and what XRP they received. 12:27:05 13 Q. I think what would be in the data is what, 12:27:09 14 for example, if it's Bitcoin, what Bitcoin 12:27:11 15 they paid, but the Bitcoin to U.S. dollar 12:27:14 16 exchange rate offered on that exchange 12:27:19 17 wouldn't necessarily be on the trading 12:27:23 18 record, right? 12:27:26 19 MR. SPEAR: Are you talking about 12:27:27 20 this a hypothetical? 12:27:30
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01 12 your assessment as to whether they 12:24:04 13 experienced a gain or loss? 12:24:07 14 A. I can't speak to any person's personal 12:24:09 15 beliefs. I think whether they've suffered 12:24:15 16 a gain or loss depends on the dollar value 12:24:18 17 of what they paid and the dollar value 12:24:22 18 of what they received. That's how I would 12:24:24 19 think about it personally. If I bought 12:24:27 20 XRP and paid something worth \$100 and when 12:24:28 21 I sold the XRP I got something worth \$90, 12:24:32 22 I would think that I suffered a loss 12:24:35	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02 12 dollars they paid and what XRP they received. 12:27:05 13 Q. I think what would be in the data is what, 12:27:09 14 for example, if it's Bitcoin, what Bitcoin 12:27:11 15 they paid, but the Bitcoin to U.S. dollar 12:27:14 16 exchange rate offered on that exchange 12:27:19 17 wouldn't necessarily be on the trading 12:27:23 18 record, right? 12:27:26 19 MR. SPEAR: Are you talking about 12:27:26 20 a specific trading record right now or is 12:27:27 21 this a hypothetical? 12:27:30 22 MR. MICHAELSON: I'm trying to 12:27:31
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01 12 your assessment as to whether they 12:24:04 13 experienced a gain or loss? 12:24:07 14 A. I can't speak to any person's personal 12:24:09 15 beliefs. I think whether they've suffered 12:24:15 16 a gain or loss depends on the dollar value 12:24:18 17 of what they paid and the dollar value 12:24:22 18 of what they received. That's how I would 12:24:24 19 think about it personally. If I bought 12:24:27 20 XRP and paid something worth \$100 and when 12:24:28 21 I sold the XRP I got something worth \$90, 12:24:35 22 I would think that I suffered a loss 12:24:39	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02 12 dollars they paid and what XRP they received. 12:27:05 13 Q. I think what would be in the data is what, 12:27:09 14 for example, if it's Bitcoin, what Bitcoin 12:27:11 15 they paid, but the Bitcoin to U.S. dollar 12:27:14 16 exchange rate offered on that exchange 12:27:19 17 wouldn't necessarily be on the trading 12:27:23 18 record, right? 12:27:26 19 MR. SPEAR: Are you talking about 12:27:26 20 a specific trading record right now or is 12:27:27 21 this a hypothetical? 12:27:30 22 MR. MICHAELSON: I'm trying to 12:27:31 23 understand, Paragraph 21 purports to lay out 12:27:32
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01 12 your assessment as to whether they 12:24:04 13 experienced a gain or loss? 12:24:07 14 A. I can't speak to any person's personal 12:24:09 15 beliefs. I think whether they've suffered 12:24:15 16 a gain or loss depends on the dollar value 12:24:18 17 of what they paid and the dollar value 12:24:22 18 of what they received. That's how I would 12:24:24 19 think about it personally. If I bought 12:24:27 20 XRP and paid something worth \$100 and when 12:24:28 21 I sold the XRP I got something worth \$90, 12:24:32 22 I would think that I suffered a loss 12:24:35	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02 12 dollars they paid and what XRP they received. 12:27:05 13 Q. I think what would be in the data is what, 12:27:09 14 for example, if it's Bitcoin, what Bitcoin 12:27:11 15 they paid, but the Bitcoin to U.S. dollar 12:27:14 16 exchange rate offered on that exchange 12:27:19 17 wouldn't necessarily be on the trading 12:27:23 18 record, right? 12:27:26 19 MR. SPEAR: Are you talking about 12:27:26 20 a specific trading record right now or is 12:27:27 21 this a hypothetical? 12:27:30 22 MR. MICHAELSON: I'm trying to 12:27:31
7 Q. So my question for you, though, is if that 12:23:46 8 investor who spends one Bitcoin to buy XRP 12:23:49 9 and then sells that XRP for 1.1 Bitcoin, 12:23:54 10 if they as an investor believe that they 12:23:59 11 experienced a gain, does that factor into 12:24:01 12 your assessment as to whether they 12:24:04 13 experienced a gain or loss? 12:24:07 14 A. I can't speak to any person's personal 12:24:09 15 beliefs. I think whether they've suffered 12:24:15 16 a gain or loss depends on the dollar value 12:24:18 17 of what they paid and the dollar value 12:24:22 18 of what they received. That's how I would 12:24:24 19 think about it personally. If I bought 12:24:27 20 XRP and paid something worth \$100 and when 12:24:28 21 I sold the XRP I got something worth \$90, 12:24:35 22 I would think that I suffered a loss 12:24:39	6 Q. If that exchange if it's possible to 12:26:36 7 trade U.S. dollars for Bitcoin on that 12:26:36 8 exchange, would that exchange's U.S. dollar 12:26:46 9 to Bitcoin exchange rate matter? 12:26:49 10 A. It would be in the data. It would be in 12:27:00 11 the very data you'd be looking at, how many 12:27:02 12 dollars they paid and what XRP they received. 12:27:05 13 Q. I think what would be in the data is what, 12:27:09 14 for example, if it's Bitcoin, what Bitcoin 12:27:11 15 they paid, but the Bitcoin to U.S. dollar 12:27:14 16 exchange rate offered on that exchange 12:27:19 17 wouldn't necessarily be on the trading 12:27:23 18 record, right? 12:27:26 19 MR. SPEAR: Are you talking about 12:27:27 20 a specific trading record right now or is 12:27:27 21 this a hypothetical? 12:27:30 22 MR. MICHAELSON: I'm trying to 12:27:31 23 understand, Paragraph 21 purports to lay out 12:27:35 24 the documents that he would use to do this 12:27:35 25 calculation, but I'm wondering where he's 12:27:37

1 getting the exchange rate for assets used 12:27:40	1 AFTERNOON SESSION 12:29:59
2 to buy or sell XRP, those assets in U.S. 12:27:43	2 VIDEOGRAPHER: We are back on the 01:11:51
3 dollars. 12:27:49	3 record. The time is 1:12 p.m. 01:11:56
4 MR. SPEAR: Objection, asked and 12:27:50	4 BY MR. MICHAELSON: 01:12:05
5 answered. Go ahead. 12:27:51	5 Q. Thank you. Referring back to your review 01:12:06
6 A. If I were doing the damage calculation or 12:27:52	6 of expert reports in the SEC action, do you 01:12:10
7 if I was advising someone else who is doing 12:27:56	7 know Dan Fischel personally? 01:12:20
8 it, I would advise that they seek the most 12:27:58	8 A. No. 01:12:21
9 reputable exchange rate database available. 12:28:02	9 Q. Do you have a view on the quality of his 01:12:21
10 Q. Okay. 12:28:08	10 work? 01:12:26
11 A. But, again, for the implementation, I just 12:28:11	11 A. Several views on the quality of his work. 01:12:29
don't know if those details need to be 12:28:16	12 I think it varies from case to case. 01:12:36
13 decided. Those details weren't decided as 12:28:19	13 Q. Did you form a view as to the opinion that 01:12:40
14 of the time that I was writing this report 12:28:22	14 he wrote, issued in the SEC action? 01:12:45
and I don't think they need to be. They're 12:28:24	15 A. No, I have not, because I don't recall what 01:12:48
16 not whatever fork in the road one were 12:28:26	16 that opinion is. 01:12:51
17 to take on working out those specific 12:28:31	17 Q. And Alan Farrell, do you know him personally? 01:12:53
18 implementation details, choosing one fork 12:28:36	18 A. More professionally than personally. 01:12:56
19 over the one side of the fork over the 12:28:36	19 Q. You know him professionally? 01:12:59
20 other would still produce a common damage 12:28:40	20 A. Right. I've been in cases where he's been 01:13:01
21 methodology for all class members. So 12:28:42	21 involved as well. 01:13:03
22 maybe I really should have just answered I 12:28:45	22 Q. I see. Have you formed an overall view of 01:13:03
23 don't know for sure which one I would do, 12:28:47	23 the quality of his work? 01:13:06
24 which exchange rate database I would use. 12:28:50	24 A. No, just that it varies from case to case. 01:13:08
25 Q. When you refer to publicly available XRP 12:28:53 Page 102	25 Q. Have you formed a view as to the quality of 01:13:11 Page 104
1 price records, what are you referring to 12:28:57	1 the report he issued in connection with 01:13:16
2 there? 12:28:59	2 the SEC action? 01:13:17
3 A. There are. Bloomberg has it, among other 12:28:59	3 A. I have not. 01:13:19
4 places. There are other databases, but 12:29:02	4 Q. Okay. You've mentioned having a calculation 01:13:20
5 Bloomberg is a good one. 12:29:07	5 of the lead plaintiff, Bradley Sostack's, 01:13:25
6 Q. Are you familiar ODL? 12:29:08	6 gain or loss in this case. Have you 01:13:30
7 A. ODL? No. Maybe I will be if you tell me 12:29:12	7 performed such a calculation? 01:13:35
8 more about it. 12:29:20	8 A. Yes. 01:13:36
9 Q. Ripple ODL, does that ring a bell? 12:29:21	9 Q. Do you know what exchange he traded XRP on? 01:13:36
10 A. What does ODL stand for? 12:29:25	10 A. Yes. 01:13:43
11 Q. It's okay. 12:29:29	11 Q. What exchange was that? 01:13:43
12 MR. MICHAELSON: I suggest we break 12:29:31	12 A. Poloniex. 01:13:45
13 for lunch. 12:29:32	13 Q. Are you familiar with the transaction fees 01:13:47
14 MR. SPEAR: Okay. 12:29:33	14 that Poloniex charges its users? 01:13:50
15 VIDEOGRAPHER: The time is 12:29. 12:29:35	15 A. No, not specific, no. 01:13:55
16 We're off the record. 12:29:44	16 Q. Do you have any understanding as to whether 01:13:59
17 (Break taken) 12:29:46	17 Poloniex's fee structure varies based on 01:14:02
18	18 the volume of transactions of the user? 01:14:07
19	19 A. I do not. 01:14:09
20	20 Q. Do you recall how you treated transaction 01:14:10
21	21 fees in connection with your calculation of 01:14:14
22	22 Mr. Sostack's damages? 01:14:16
23	23 A. I do. 01:14:19
24	24 Q. And how did you treat them? 01:14:19
25	25 A. We used the actual transaction prices, so 01:14:22
Page 103	Page 105

1 if they included a bid-ask spread, the 01:14:25	1 thinks the LIFO or FIFO method is the 01:17:02
2 bid-ask spread transaction cost was included 01:14:28	2 better method, I think that's outside the 01:17:06
3 and incorporated, but I did not include 01:14:33	3 scope of his opinions, but that's the 01:17:08
4 commissions as a cost. 01:14:35	4 objection. I'm not instructing him not to 01:17:09
5 Q. When you say if a fee was included in the 01:14:39	5 answer. I'm objecting on scope grounds. 01:17:15
6 bid-ask spread, you mean that fee is 01:14:42	6 Q. Okay. When calculating Mr. Sostack's 01:17:20
7 baked into the transaction price that he 01:14:45	7 damages, do you recall whether he, whether 01:17:29
8 experiences, correct? 01:14:48	8 certain of his purchases involved Bitcoin? 01:17:35
9 A. Correct. 01:14:49	9 A. I'm sorry? 01:17:38
10 Q. Okay. Did you perform any analysis as to 01:14:50	10 Q. Did certain of his purchases involve Bitcoin? 01:17:38
11 whether, had you calculated let me scratch 01:14:54	11 A. Yes. 01:17:44
12 that. 01:15:02	12 Q. And certain of his transactions involved 01:17:44
Where a trader like Mr. Sostack 01:15:09	13 Tether? 01:17:47
buys, multiple buys and multiple sales, how 01:15:14	14 A. That's correct. 01:17:48
15 do you calculate gain or loss? Do you use a 01:15:18	15 Q. And what did you use to calculate the 01:17:49
16 FIFO analysis, LIFO? How do you 01:15:22	amount paid at time of purchase in those 01:17:56
17 A. In the case of Mr. Sostack, I did it both 01:15:25	17 instances where Mr. Sostack used Bitcoin 01:18:00
ways and it did not make any difference. 01:15:28	18 to purchase XRP? 01:18:02
19 Q. Would you agree that there are instances 01:15:31	19 A. His transaction records indicated how 01:18:04
where it can make a difference whether you 01:15:34	20 much Bitcoin he paid and Bloomberg data 01:18:09
21 use FIFO or LIFO? 01:15:37	21 was used to translate quantity of Bitcoin 01:18:15
22 A. Yes. 01:15:39	22 to dollars, dollar value. 01:18:19
23 Q. Would you agree that that could impact, 01:15:40	23 Q. Precisely what Bloomberg data? 01:18:22
24 depending on what methodology is picked, 01:15:51	24 A. Bloomberg provides exchange rates between 01:18:29
25 FIFO or LIFO, that some class members here 01:15:54	25 Bitcoin in dollars, and I used that data 01:18:33
Page	106 Page 108
1 could be impacted favorably and others 01:15:57	1 precisely I specified as of 4:00 p.m., so 01:18:37
2 unfavorably? 01:16:02	2 end of trading day in New York. 01:18:41
3 A. It's possible. 01:16:02	3 Q. Did you know at the time what time Mr. 01:18:45
4 Q. Have you determined what methodology would 01:16:0	4 Sostack's transaction happened? 01:18:49
5 be the appropriate methodology to use here, 01:16:06	5 A. No. 01:18:51
6 FIFO or LIFO? 01:16:09	6 Q. Do you know if on the Bloomberg data, does 01:18:52
7 MR. SPEAR: Objection, scope. 01:16:11	7 it have data for every minute of the day 01:18:58
8 A. No, but I have determined that whichever 01:16:12	8 or only 4:00 p.m.? 01:19:03
9 methodology is dictated would produce a 01:16:18	9 A. I believe you can specify other times during 01:19:05
methodology for calculating damages that's 01:16:23	10 the day. 01:19:09
11 common for all class members. Usually 01:16:25	11 Q. And you specified four o'clock? 01:19:10
12 it's a legal determination or an agreement 01:16:28	12 A. Yes. 01:19:11
among the parties as to whether LIFO or 01:16:31	13 Q. Do you know if Mr. Sostack's trading records 01:19:12
14 FIFO should be used. 01:16:33	14 reflected the time of his transaction 01:19:16
15 MR. MICHAELSON: Mr. Spear, could 01:16:38	15 involving Bitcoin? 01:19:21
16 you explain the scope objection there? You 01:16:39	16 A. My recollection is that they did not, and 01:19:22
17 objected to that question based on scope, 01:16:42	17 it's fairly standard methodology applied in 01:19:27
and I'm trying to understand what the basis 01:16:43	other class action cases to use end-of-day 01:19:31
19 of that objection is. 01:16:45	19 data for these sort of purposes. 01:19:35
20 MR. SPEAR: I think he's testified 01:16:46	20 Q. And in those other cases, does the asset 01:19:37
21 a few times today like the mechanics of 01:16:48	21 trade 24 hours a day? 01:19:41
22 his methodology. If you're asking whether 01:16:50	22 A. Sometimes, yes. Bonds do, currencies do. 01:19:44
23 LIFO or FIFO would not be a classwide 01:16:54	23 Q. And would you agree that if you used the 01:19:48
T. Control of the Con	The state of the s
24 application, it goes to the scope of the 01:16:57	24 Bitcoin-to-dollar exchange rate at the time 01:19:51
24 application, it goes to the scope of the 01:16:57 25 opinions. If you're asking him whether he 01:17:01 Page	25 of transaction rather than at end of day 4:00 01:19:53

1 p.m., that could affect some class members 01:19:59	1 A. I hadn't thought about it before you were 01:23:31
2 favorably and some class members unfavorably? 01:20:01	2 asking about it today, and I'm not sure 01:23:33
3 MR. SPEAR: Objection, calls for 01:20:04	3 from a legal perspective whether someone 01:23:38
4 speculation. 01:20:05	4 who's paid in XRP is considered a purchaser 01:23:41
5 A. I don't know for sure, but it's possible. 01:20:05	5 of XRP. As I sit here now, it's my first 01:23:44
6 Q. Referring to your damages models at 01:20:15	6 impression, which may change as I consider 01:23:50
7 Paragraphs 19 and 20 of your report, the 01:20:37	7 it further, but my first impression is that 01:23:52
8 first input is the dollar amount paid at 01:20:41	8 it certainly could. It would measure the 01:23:55
9 time of purchase. How would you apply 01:20:44	9 value of the XRP that was delivered with an 01:23:57
10 this methodology to someone who acquired 01:20:51	10 understanding that that's what the person 01:24:00
11 XRP as payment for their work, for example, 01:20:57	11 was getting paid. 01:24:02
12 from their employer? 01:21:01	12 Q. How would this methodology apply to someone 01:24:04
13 A. First of all, I don't know if I would. 01:21:04	13 who acquired XRP in exchange for a tangible 01:24:06
14 That seems to be a legal determination 01:21:06	14 good, like a cup of coffee? 01:24:09
15 whether that hypothetical person would be 01:21:08	15 A. You could do the same thing, look at the 01:24:20
a member of the class, but it's certainly 01:21:13	16 quantity of XRP and the value in terms of 01:24:21
17 theoretically possible to value the work 01:21:23	17 dollars of the XRP at the time of that 01:24:24
18 that is being paid for or just use the 01:21:25	18 transaction. 01:24:25
19 quantity of XRP that's being delivered and 01:21:33	19 Q. How would it apply to someone who acquired 01:24:37
20 a market price of the XRP at that time. 01:21:35	20 XRP pursuant to a bilateral contract 01:24:49
21 Q. Even in the case of even if the 01:21:39	21 providing for the exchange of XRP? 01:24:55
22 compensation, the amount of XRP that the 01:21:59	22 A. As I sit here now, I think you could do the 01:25:04
23 employee would receive was set months in 01:22:03	23 same thing. You can calculate the dollar 01:25:07
24 advance of when the employee received it, 01:22:08	24 value of the XRP that was conveyed as of the 01:25:09
25 are you proposing that you would use the 01:22:11	25 time of the conveyance. 01:25:15
Page 110	Page 112
1 value of the XRP at the time it was 01:22:13	1 Q. And if the contract were to have a 01:25:17
2 received, not when the compensation 01:22:14	2 clause that would, for example, make the 01:25:25
3 amount was set? 01:22:17	3 counterparty whole if they were to sell 01:25:30
4 A. I don't know if a person who receives a 01:22:17	4 XRP at a loss, would that be factored into 01:25:32
5 bonus or pay compensation in terms of XRP 01:22:22	5 your analysis of whether that person with 01:25:36
	- J J
6 is a member of the class. It's something 01:22:29	6 XRP suffered a gain or loss? 01:25:38
6 is a member of the class. It's something 01:22:29 7 I'd have to think about. Let me hear your 01:22:33	
7 I'd have to think about. Let me hear your 01:22:33	7 A. I don't know. I really, once you talk about 01:25:41
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44 12 someone who received XRP in exchange for 01:22:48	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56 12 Q. Is it fair to say you would need to know 01:25:59
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44 12 someone who received XRP in exchange for 01:22:48 13 their work, and you had said that you'd 01:22:51	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56 12 Q. Is it fair to say you would need to know 01:25:59 13 what the contract says in order to assess 01:26:01
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44 12 someone who received XRP in exchange for 01:22:48 13 their work, and you had said that you'd 01:22:51 14 look to the value in U.S. dollars of XRP 01:22:55	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56 12 Q. Is it fair to say you would need to know 01:25:59 13 what the contract says in order to assess 01:26:01 14 whether that purchaser of XRP suffered, 01:26:04
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44 12 someone who received XRP in exchange for 01:22:48 13 their work, and you had said that you'd 01:22:51 14 look to the value in U.S. dollars of XRP 01:22:55 15 as of the time of the receipt of that 01:22:59	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56 12 Q. Is it fair to say you would need to know 01:25:59 13 what the contract says in order to assess 01:26:01 14 whether that purchaser of XRP suffered, 01:26:04 15 sustained a gain or loss? 01:26:07
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44 12 someone who received XRP in exchange for 01:22:48 13 their work, and you had said that you'd 01:22:51 14 look to the value in U.S. dollars of XRP 01:22:55 15 as of the time of the receipt of that 01:22:59 16 compensation? 01:23:02	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56 12 Q. Is it fair to say you would need to know 01:25:59 13 what the contract says in order to assess 01:26:01 14 whether that purchaser of XRP suffered, 01:26:04 15 sustained a gain or loss? 01:26:07 16 MR. SPEAR: Objection, calls for 01:26:08
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44 12 someone who received XRP in exchange for 01:22:48 13 their work, and you had said that you'd 01:22:51 14 look to the value in U.S. dollars of XRP 01:22:55 15 as of the time of the receipt of that 01:22:59 16 compensation? 01:23:02 17 A. That's certainly a methodology that could 01:23:03	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56 12 Q. Is it fair to say you would need to know 01:25:59 13 what the contract says in order to assess 01:26:01 14 whether that purchaser of XRP suffered, 01:26:04 15 sustained a gain or loss? 01:26:07 16 MR. SPEAR: Objection, calls for 01:26:08 17 speculation. 01:26:09
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44 12 someone who received XRP in exchange for 01:22:48 13 their work, and you had said that you'd 01:22:51 14 look to the value in U.S. dollars of XRP 01:22:55 15 as of the time of the receipt of that 01:22:59 16 compensation? 01:23:02 17 A. That's certainly a methodology that could 01:23:03 18 be done. I'd have to think whether that's 01:23:05	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56 12 Q. Is it fair to say you would need to know 01:25:59 13 what the contract says in order to assess 01:26:01 14 whether that purchaser of XRP suffered, 01:26:04 15 sustained a gain or loss? 01:26:07 16 MR. SPEAR: Objection, calls for 01:26:08 17 speculation. 01:26:09 18 A. I just really don't know one way or the 01:26:10
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44 12 someone who received XRP in exchange for 01:22:48 13 their work, and you had said that you'd 01:22:51 14 look to the value in U.S. dollars of XRP 01:22:55 15 as of the time of the receipt of that 01:22:59 16 compensation? 01:23:02 17 A. That's certainly a methodology that could 01:23:03 18 be done. I'd have to think whether that's 01:23:05 19 the only methodology and the best 01:23:08	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56 12 Q. Is it fair to say you would need to know 01:25:59 13 what the contract says in order to assess 01:26:01 14 whether that purchaser of XRP suffered, 01:26:04 15 sustained a gain or loss? 01:26:07 16 MR. SPEAR: Objection, calls for 01:26:08 17 speculation. 01:26:09 18 A. I just really don't know one way or the 01:26:10 19 other. I might not need to know the details 01:26:14
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44 12 someone who received XRP in exchange for 01:22:48 13 their work, and you had said that you'd 01:22:51 14 look to the value in U.S. dollars of XRP 01:22:55 15 as of the time of the receipt of that 01:22:59 16 compensation? 01:23:02 17 A. That's certainly a methodology that could 01:23:03 18 be done. I'd have to think whether that's 01:23:05 19 the only methodology and the best 01:23:08 20 methodology. I haven't made a determination 01:23:09	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56 12 Q. Is it fair to say you would need to know 01:25:59 13 what the contract says in order to assess 01:26:01 14 whether that purchaser of XRP suffered, 01:26:04 15 sustained a gain or loss? 01:26:07 16 MR. SPEAR: Objection, calls for 01:26:08 17 speculation. 01:26:09 18 A. I just really don't know one way or the 01:26:10 19 other. I might not need to know the details 01:26:14 20 of the contract. I might need to know the 01:26:19
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44 12 someone who received XRP in exchange for 01:22:48 13 their work, and you had said that you'd 01:22:51 14 look to the value in U.S. dollars of XRP 01:22:55 15 as of the time of the receipt of that 01:22:59 16 compensation? 01:23:02 17 A. That's certainly a methodology that could 01:23:03 18 be done. I'd have to think whether that's 01:23:05 19 the only methodology and the best 01:23:08 20 methodology. I haven't made a determination 01:23:09 21 yet. I'm not even sure I would ever need 01:23:12	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56 12 Q. Is it fair to say you would need to know 01:25:59 13 what the contract says in order to assess 01:26:01 14 whether that purchaser of XRP suffered, 01:26:04 15 sustained a gain or loss? 01:26:07 16 MR. SPEAR: Objection, calls for 01:26:08 17 speculation. 01:26:09 18 A. I just really don't know one way or the 01:26:10 19 other. I might not need to know the details 01:26:14 20 of the contract. I might need to know the 01:26:19 21 details of the contract. As I sit here, I 01:26:23
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44 12 someone who received XRP in exchange for 01:22:48 13 their work, and you had said that you'd 01:22:51 14 look to the value in U.S. dollars of XRP 01:22:55 15 as of the time of the receipt of that 01:22:59 16 compensation? 01:23:02 17 A. That's certainly a methodology that could 01:23:03 18 be done. I'd have to think whether that's 01:23:05 19 the only methodology and the best 01:23:08 20 methodology. I haven't made a determination 01:23:09 21 yet. I'm not even sure I would ever need 01:23:12 22 to do that calculation. 01:23:15	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56 12 Q. Is it fair to say you would need to know 01:25:59 13 what the contract says in order to assess 01:26:01 14 whether that purchaser of XRP suffered, 01:26:04 15 sustained a gain or loss? 01:26:07 16 MR. SPEAR: Objection, calls for 01:26:08 17 speculation. 01:26:09 18 A. I just really don't know one way or the 01:26:10 19 other. I might not need to know the details 01:26:14 20 of the contract. I might need to know the 01:26:19 21 details of the contract. As I sit here, I 01:26:23 22 don't know. 01:26:28
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44 12 someone who received XRP in exchange for 01:22:48 13 their work, and you had said that you'd 01:22:51 14 look to the value in U.S. dollars of XRP 01:22:55 15 as of the time of the receipt of that 01:22:59 16 compensation? 01:23:02 17 A. That's certainly a methodology that could 01:23:03 18 be done. I'd have to think whether that's 01:23:05 19 the only methodology and the best 01:23:08 20 methodology. I haven't made a determination 01:23:09 21 yet. I'm not even sure I would ever need 01:23:12 22 to do that calculation. 01:23:15 23 Q. But it's your testimony that this methodology 01:23:16	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56 12 Q. Is it fair to say you would need to know 01:25:59 13 what the contract says in order to assess 01:26:01 14 whether that purchaser of XRP suffered, 01:26:04 15 sustained a gain or loss? 01:26:07 16 MR. SPEAR: Objection, calls for 01:26:08 17 speculation. 01:26:09 18 A. I just really don't know one way or the 01:26:10 19 other. I might not need to know the details 01:26:14 20 of the contract. I might need to know the 01:26:19 21 details of the contract. As I sit here, I 01:26:23 22 don't know. 01:26:28
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44 12 someone who received XRP in exchange for 01:22:48 13 their work, and you had said that you'd 01:22:51 14 look to the value in U.S. dollars of XRP 01:22:55 15 as of the time of the receipt of that 01:22:59 16 compensation? 01:23:02 17 A. That's certainly a methodology that could 01:23:03 18 be done. I'd have to think whether that's 01:23:05 19 the only methodology and the best 01:23:08 20 methodology. I haven't made a determination 01:23:09 21 yet. I'm not even sure I would ever need 01:23:12 22 to do that calculation. 01:23:15 23 Q. But it's your testimony that this methodology 01:23:16 24 expressed here in Paragraphs 19 and 20 could 01:23:26	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56 12 Q. Is it fair to say you would need to know 01:25:59 13 what the contract says in order to assess 01:26:01 14 whether that purchaser of XRP suffered, 01:26:04 15 sustained a gain or loss? 01:26:07 16 MR. SPEAR: Objection, calls for 01:26:08 17 speculation. 01:26:09 18 A. I just really don't know one way or the 01:26:10 19 other. I might not need to know the details 01:26:14 20 of the contract. I might need to know the 01:26:19 21 details of the contract. As I sit here, I 01:26:23 22 don't know. 01:26:28 23 Q. Is it fair to say that if a contract had 01:26:32
7 I'd have to think about. Let me hear your 01:22:33 8 question again, please. 01:22:35 9 Q. Well, I had asked how you would calculate 01:22:36 10 the amount, dollar amount paid at the time 01:22:42 11 of purchase, how you would apply that to 01:22:44 12 someone who received XRP in exchange for 01:22:48 13 their work, and you had said that you'd 01:22:51 14 look to the value in U.S. dollars of XRP 01:22:55 15 as of the time of the receipt of that 01:22:59 16 compensation? 01:23:02 17 A. That's certainly a methodology that could 01:23:03 18 be done. I'd have to think whether that's 01:23:05 19 the only methodology and the best 01:23:08 20 methodology. I haven't made a determination 01:23:09 21 yet. I'm not even sure I would ever need 01:23:12 22 to do that calculation. 01:23:15 23 Q. But it's your testimony that this methodology 01:23:16	7 A. I don't know. I really, once you talk about 01:25:41 8 a particular contract, I just don't know. 01:25:44 9 It's a hypothetical and it seems incomplete. 01:25:50 10 I don't know the details of this contract to 01:25:54 11 be able to answer that question. 01:25:56 12 Q. Is it fair to say you would need to know 01:25:59 13 what the contract says in order to assess 01:26:01 14 whether that purchaser of XRP suffered, 01:26:04 15 sustained a gain or loss? 01:26:07 16 MR. SPEAR: Objection, calls for 01:26:08 17 speculation. 01:26:09 18 A. I just really don't know one way or the 01:26:10 19 other. I might not need to know the details 01:26:14 20 of the contract. I might need to know the 01:26:19 21 details of the contract. As I sit here, I 01:26:23 22 don't know. 01:26:28

1 of XRP, that you would need to see the 01:26:38	1 to that situation. 01:29:16
2 contract in order to calculate that 01:26:43	2 A. You calculate how much was paid for the 01:29:19
3 purchaser's gain or loss? 01:26:46	3 XRP, not how much was paid for the option 01:29:21
4 MR. SPEAR: Objection, incomplete 01:26:48	4 on the XRP. 01:29:26
5 hypothetical. Objection, calls for 01:26:49	5 Q. And why is that? 01:29:27
6 speculation. 01:26:51	6 A. Because this person is buying two different 01:29:28
7 A. I really think my answer has to be I don't 01:26:52	7 things, XRP tokens as well as an option 01:29:31
8 know. It can. It might not. I can imagine 01:26:59	8 in XRP tokens. If I want to find out how 01:29:35
9 hypotheticals where it matters, the details 01:27:03	9 much they're paying for the XRP tokens 01:29:39
10 of the contract, and I can imagine 01:27:04	10 themselves, I've got to exclude how much 01:29:42
11 hypotheticals where it doesn't or I wouldn't. 01:27:07	11 they're paying for the options. 01:29:45
12 If the contract certainly it's always 01:27:15	12 Q. So if that purchaser were then to sell 01:29:47
possible using publicly available data to 01:27:23	13 XRP at a loss and receives some money from 01:29:50
14 calculate the value of the XRP that's being 01:27:27	14 the contractual counterparty thereafter, 01:29:54
15 conveyed at a particular point in time. 01:27:30	15 you wouldn't offset that purchaser's loss 01:29:56
16 Whether there's a contract that includes 01:27:36	loop based on the payment they received from the 01:30:01
other transactions simultaneously, like some 01:27:37	17 counterparty following their sale? 01:30:03
18 sort of put option, might make a difference 01:27:41	18 MR. SPEAR: Objection, incomplete 01:30:03
19 or might not in terms of measuring 01:27:45	19 hypothetical. Objection, calls for 01:30:04
20 consideration paid and value received. 01:27:47	20 speculation. 01:30:06
21 Q. So referring to your formula in Paragraph 19, 01:27:51	21 A. These seem to be unusual aberrant 01:30:07
22 you start with a dollar amount paid at time 01:27:58	22 hypotheticals that might take some analysis, 01:30:11
24 at an appropriate interest rate and then you 01:28:06	24 still calculating how much was paid and how 01:30:20
25 subtract dollar amount received at time of 01:28:08 Page 114	25 much was received and the difference is the 01:30:22 Page 116
1 sale, correct? 01:28:11	1 loss. If there's some unusual details of 01:30:24
2 A. Right. 01:28:12	2 the transactions that might require some 01:30:30
3 Q. What if the contract called for that seller 01:28:13	3 additional analysis from an economist or 01:30:34
4 to receive some additional dollar amount 01:28:15	4 from the claims administrator, but if the 01:30:38
5 later in time 01:28:20	5 sale is the result of the exercise of a 01:30:43
	6 put option, as I sit here now, it seems to 01:30:46
3	
	1
8 appropriate to factor in that subsequent 01:28:24	8 price of that put option and we would know 01:30:52
9 payment into that person's gain or loss? 01:28:26	9 how much this person received when selling 01:30:57
MR. SPEAR: Objection, incomplete 01:28:30	10 his or her XRP. 01:31:02
11 hypothetical. Objection, calls for 01:28:31	11 Q. Your formula here in Paragraph 19 purports 01:31:06
12 speculation. 01:28:33	12 to calculate damages for class members who 01:31:15
13 A. I'm trying to mentally picture this contract 01:28:33	13 purchased and later sold XRP? 01:31:18
14 you're describing. Can you say it again? 01:28:36	14 A. Right. 01:31:19
15 Q. Yes. Assume there's a contract pursuant 01:28:42	15 Q. It sets out three inputs, the dollar amount 01:31:20
where someone buys XRP, but the contract 01:28:46	paid at time of purchase, interest thereon 01:31:23
17 provides that if they sell for a loss or a 01:28:50	and the amount received at time of sale? 01:31:27
loss of certain magnitude, they'll be made 01:28:53	18 A. Right. 01:31:29
19 whole to some degree. 01:28:55	19 Q. What I'm suggesting, I'm wondering how this 01:31:29
20 A. So this person is buying XRP and they're 01:28:58	would apply to a situation where a contract 01:31:34
21 also buying a put option on the XRP. That's 01:29:02	21 provided for some payment to the seller 01:31:36
22 how you would analyze that from a financial 01:29:07	22 after the time of sale. That is not 01:31:39
23 perspective. And you're asking how would I 01:29:09	23 encompassed by this methodology, correct? 01:31:41
24 calculate how much was paid for the XRP? 01:29:12	24 MR. SPEAR: Objection, calls for 01:31:44
T. Control of the Con	I .
25 Q. I'm asking how this methodology would apply 01:29:14	25 speculation. Objection, incomplete 01:31:46

1 hypothetical. Go ahead. 01:31:48	1	to the claim form, is this all the 01:34:05
2 A. So you're saying there's a contract that 01:31	:49 2	compensation you received for selling this 01:34:07
3 says the person sells it and then at a later 01:31:5	51 3	asset or did you receive additional 01:34:09
4 date is given additional money pursuant to 01:3	1:55 4	compensation somewhere else in some other 01:34:11
5 a put option? Is that what you're saying? 01:31	:59 5	way. I think this is the job the claims 01:34:15
6 Q. You're the one describing it as a put option. 01:3	32:01 6	administrators are comfortable performing 01:34:18
7 I have not described it as a put option. 01:32:0	3 7	and typically do. 01:34:21
8 A. Well, locking in that you can't sell for 01:32:	06 8	Q. If a claims addministrator did that, would 01:34:21
9 less than what you paid for it is modeled 01:32	:09 9	that claims administrator be deviating from 01:34:25
as a put option, so I think the proceeds 01:32:1	12   10	the formula laid out in Paragraph 19? 01:34:27
11 from the market sale, plus the I would 01:32	:18   11	A. Not at all. Well, only to the extent that 01:34:31
have to think about that. I'm not sure 01:32:2	5   12	it says at time of sale. So what I wrote 01:34:33
	:32:27 13	here is what applies to the what you're 01:34:38
in the put option or not as part of the 01:32:28		doing is an exercise to try to look for 01:34:44
sales proceeds. I'd have to think about 01:32:3		hypotheticals that possibly don't even exist 01:34:48
that, but we're still trying to calculate how 01:32:		that would add complexity to the formula. 01:34:53
much was received from the sale. 01:32:3		And if these hypotheticals do exist, it's 01:34:56
18 Q. Is it fair to say, though, that in order to 01:32:3		easy to modify this formula so it's all 01:34:59
19 apply this methodology that you put forth 01:3		common for all class members, but takes into 01:35:02
		ŕ
		account very peculiar complexities such as 01:35:05
	21	you received your payment two different, 01:35:08
3 , 1	32:47   22	on two different dates or multiple dates. 01:35:10
hypothetical, calls for speculation. 01:32:48		Q. What is your basis for expressing that 01:35:13
24 A. I think the trading records would suffice 01:3:		this hypothetical that I'm describing is 01:35:18
25 just as they would for any other investor. 01:32	:52   25   ge 118	aberrant or so unusual? 01:35:20 Page 120
1 4	gc 110	1 age 120
1 The trading records say how much he or 01:32:56	1	A. Because the whole idea of exchange trading 01:35:23
2 she received when they sold the XRP and 01:33:00	2	or trading even on the ledger is that 01:35:28
3 then how much they received pursuant to 01:33:03	3	you're trading in a fungible manner, that 01:35:32
4 the put option. I think that would be in 01:33:05	4	your trades are just like other people's 01:35:35
5 the trading records, or that could certainly 01:33:07	5	trades and they're standardized, the terms 01:35:38
6 be a claims administrator question, did you 01:33:09		
o be a claims administrator question, and you or 35.05	6	are standardized. It's only, you know 01:35:43
7 receive additional compensation subsequent 01:33:12	6 7	-
1		are standardized. It's only, you know 01:35:43
7 receive additional compensation subsequent 01:33:12 8 pursuant to that sale. That's the kind of 01:33:16	7	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47
7 receive additional compensation subsequent 01:33:12 8 pursuant to that sale. That's the kind of 01:33:16	7 8	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49
7 receive additional compensation subsequent 01:33:12 8 pursuant to that sale. That's the kind of 01:33:16 9 thing claims administrators handle all the 01:33:19 10 time. 01:33:22	7 8 9	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52
7 receive additional compensation subsequent 01:33:12 8 pursuant to that sale. That's the kind of 01:33:16 9 thing claims administrators handle all the 01:33:19 10 time. 01:33:22 11 Q. Isn't what your opinion here expressing 01:33:23	7 8 9 10	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, 01:36:00
7 receive additional compensation subsequent 01:33:12 8 pursuant to that sale. That's the kind of 01:33:16 9 thing claims administrators handle all the 01:33:19 10 time. 01:33:22 11 Q. Isn't what your opinion here expressing 01:33:23 12 is that the claims administrator would 01:33:23	7 8 9 10 11 12	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, 01:36:00 much lower in volume, if it exists at all, 01:36:05
7 receive additional compensation subsequent 01:33:12 8 pursuant to that sale. That's the kind of 01:33:16 9 thing claims administrators handle all the 01:33:19 10 time. 01:33:22 11 Q. Isn't what your opinion here expressing 01:33:23 12 is that the claims administrator would 01:33:23 13 follow this formula? 01:33:29	7 8 9 10 11 12 13	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, 01:36:00 much lower in volume, if it exists at all, 01:36:05 but in a customized way. Standardization 01:36:09
7 receive additional compensation subsequent 01:33:12 8 pursuant to that sale. That's the kind of 01:33:16 9 thing claims administrators handle all the 01:33:19 10 time. 01:33:22 11 Q. Isn't what your opinion here expressing 01:33:23 12 is that the claims administrator would 01:33:23 13 follow this formula? 01:33:29 14 A. Right. And to measure the amount received 01:33:29	7 8 9 10 11 12 13 14	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, 01:36:00 much lower in volume, if it exists at all, 01:36:05 but in a customized way. Standardization 01:36:09 allows for marketplaces to handle volume, 01:36:13
7 receive additional compensation subsequent 01:33:12 8 pursuant to that sale. That's the kind of 01:33:16 9 thing claims administrators handle all the 01:33:19 10 time. 01:33:22 11 Q. Isn't what your opinion here expressing 01:33:23 12 is that the claims administrator would 01:33:23 13 follow this formula? 01:33:29 14 A. Right. And to measure the amount received 01:33:29 15 for the sale, I would think for the vast 01:33:32	7 8 9 10 11 12 13 14 15	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, 01:36:00 much lower in volume, if it exists at all, 01:36:05 but in a customized way. Standardization 01:36:09 allows for marketplaces to handle volume, 01:36:13 so the volume will predominantly be from 01:36:17
7 receive additional compensation subsequent 01:33:12 8 pursuant to that sale. That's the kind of 01:33:16 9 thing claims administrators handle all the 01:33:19 10 time. 01:33:22 11 Q. Isn't what your opinion here expressing 01:33:23 12 is that the claims administrator would 01:33:23 13 follow this formula? 01:33:29 14 A. Right. And to measure the amount received 01:33:32 15 for the sale, I would think for the vast 01:33:32 16 majority of class members would be a 01:33:37	7 8 9 10 11 12 13 14 15 16	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, 01:36:00 much lower in volume, if it exists at all, 01:36:05 but in a customized way. Standardization 01:36:09 allows for marketplaces to handle volume, 01:36:13 so the volume will predominantly be from 01:36:17 standardized trades. 01:36:20
7 receive additional compensation subsequent 01:33:12 8 pursuant to that sale. That's the kind of 01:33:16 9 thing claims administrators handle all the 01:33:19 10 time. 01:33:22 11 Q. Isn't what your opinion here expressing 01:33:23 12 is that the claims administrator would 01:33:23 13 follow this formula? 01:33:29 14 A. Right. And to measure the amount received 01:33:32 15 for the sale, I would think for the vast 01:33:32 16 majority of class members would be a 01:33:37 17 straightforward reading of the confirmation 01:33:38	7 8 9 10 11 12 13 14 15 16 17	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, 01:36:00 much lower in volume, if it exists at all, 01:36:05 but in a customized way. Standardization 01:36:09 allows for marketplaces to handle volume, 01:36:13 so the volume will predominantly be from 01:36:17 standardized trades. 01:36:20 Q. Do you have any basis to form a view as 01:36:22
7 receive additional compensation subsequent 01:33:12 8 pursuant to that sale. That's the kind of 01:33:16 9 thing claims administrators handle all the 01:33:19 10 time. 01:33:22 11 Q. Isn't what your opinion here expressing 01:33:23 12 is that the claims administrator would 01:33:23 13 follow this formula? 01:33:29 14 A. Right. And to measure the amount received 01:33:29 15 for the sale, I would think for the vast 01:33:32 16 majority of class members would be a 01:33:37 17 straightforward reading of the confirmation 01:33:38 18 ticket or the trading records for the small 01:33:42	7 8 9 10 11 12 13 14 15 16 17 18	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, 01:36:00 much lower in volume, if it exists at all, 01:36:05 but in a customized way. Standardization 01:36:09 allows for marketplaces to handle volume, 01:36:13 so the volume will predominantly be from 01:36:17 standardized trades. 01:36:20 Q. Do you have any basis to form a view as 01:36:22 to whether a use of a digital asset might 01:36:27
7 receive additional compensation subsequent 01:33:12 8 pursuant to that sale. That's the kind of 01:33:16 9 thing claims administrators handle all the 01:33:19 10 time. 01:33:22 11 Q. Isn't what your opinion here expressing 01:33:23 12 is that the claims administrator would 01:33:23 13 follow this formula? 01:33:29 14 A. Right. And to measure the amount received 01:33:32 15 for the sale, I would think for the vast 01:33:32 16 majority of class members would be a 01:33:37 17 straightforward reading of the confirmation 01:33:38 18 ticket or the trading records for the small 01:33:42 19 minority or one-offs that might have received 01:33:47	7 8 9 10 11 12 13 14 15 16 17 18 19	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, 01:36:00 much lower in volume, if it exists at all, 01:36:05 but in a customized way. Standardization 01:36:09 allows for marketplaces to handle volume, 01:36:13 so the volume will predominantly be from 01:36:17 standardized trades. 01:36:20 Q. Do you have any basis to form a view as 01:36:22 to whether a use of a digital asset might 01:36:33
7 receive additional compensation subsequent 01:33:12 8 pursuant to that sale. That's the kind of 01:33:16 9 thing claims administrators handle all the 01:33:19 10 time. 01:33:22 11 Q. Isn't what your opinion here expressing 01:33:23 12 is that the claims administrator would 01:33:23 13 follow this formula? 01:33:29 14 A. Right. And to measure the amount received 01:33:32 15 for the sale, I would think for the vast 01:33:32 16 majority of class members would be a 01:33:37 17 straightforward reading of the confirmation 01:33:38 18 ticket or the trading records for the small 01:33:42 19 minority or one-offs that might have received 01:33:51	7 8 9 10 11 12 13 14 15 16 17 18 19 20	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, 01:36:00 much lower in volume, if it exists at all, 01:36:05 but in a customized way. Standardization 01:36:09 allows for marketplaces to handle volume, 01:36:13 so the volume will predominantly be from 01:36:17 standardized trades. 01:36:20 Q. Do you have any basis to form a view as 01:36:22 to whether a use of a digital asset might 01:36:37 of bilateral agreements might exist? 01:36:37
7 receive additional compensation subsequent 01:33:12 8 pursuant to that sale. That's the kind of 01:33:16 9 thing claims administrators handle all the 01:33:19 10 time. 01:33:22 11 Q. Isn't what your opinion here expressing 01:33:23 12 is that the claims administrator would 01:33:23 13 follow this formula? 01:33:29 14 A. Right. And to measure the amount received 01:33:32 15 for the sale, I would think for the vast 01:33:32 16 majority of class members would be a 01:33:37 17 straightforward reading of the confirmation 01:33:38 18 ticket or the trading records for the small 01:33:42 19 minority or one-offs that might have received 01:33:47 20 compensation in a different way. That could 01:33:51 21 be a question that the claims administrator 01:33:54	7 8 9 10 11 12 13 0 14 15 16 17 18 19 20 21	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, 01:36:00 much lower in volume, if it exists at all, 01:36:05 but in a customized way. Standardization 01:36:09 allows for marketplaces to handle volume, 01:36:13 so the volume will predominantly be from 01:36:17 standardized trades. 01:36:20 Q. Do you have any basis to form a view as 01:36:22 to whether a use of a digital asset might 01:36:27 impact the frequency with which these types 01:36:33 of bilateral agreements might exist? 01:36:41
receive additional compensation subsequent 01:33:12  pursuant to that sale. That's the kind of 01:33:16  thing claims administrators handle all the 01:33:19  time. 01:33:22  1 Q. Isn't what your opinion here expressing 01:33:23  is that the claims administrator would 01:33:23  follow this formula? 01:33:29  A. Right. And to measure the amount received 01:33:25  for the sale, I would think for the vast 01:33:32  majority of class members would be a 01:33:37  straightforward reading of the confirmation 01:33:38  ticket or the trading records for the small 01:33:42  minority or one-offs that might have received 01:33:51  minority or one-offs that might have received 01:33:51  asked, did you receive additional 01:33:54	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	are standardized. It's only, you know even over-the-counter trades are usually standardized, but over-the-counter it's possible to have customized features, but because they're customized, over-the-counter 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, much lower in volume, if it exists at all, 01:36:05 but in a customized way. Standardization allows for marketplaces to handle volume, 01:36:13 so the volume will predominantly be from standardized trades. 01:36:20 Q. Do you have any basis to form a view as 01:36:22 to whether a use of a digital asset might 01:36:37 impact the frequency with which these types 01:36:37 MR. SPEAR: Objection, form. 01:36:44 A. I didn't entirely understand your question. 01:36:44
receive additional compensation subsequent 01:33:12  pursuant to that sale. That's the kind of 01:33:16  thing claims administrators handle all the 01:33:19  time. 01:33:22  1 Q. Isn't what your opinion here expressing 01:33:23  is that the claims administrator would 01:33:23  follow this formula? 01:33:29  A. Right. And to measure the amount received 01:33:32  for the sale, I would think for the vast 01:33:32  majority of class members would be a 01:33:37  straightforward reading of the confirmation 01:33:38  ticket or the trading records for the small 01:33:42  minority or one-offs that might have received 01:33:51  minority or one-offs that might have received 01:33:54  asked, did you receive additional 01:33:54  compensation for the sale. It could be a 01:33:54	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, 01:36:00 much lower in volume, if it exists at all, 01:36:05 but in a customized way. Standardization 01:36:09 allows for marketplaces to handle volume, 01:36:13 so the volume will predominantly be from 01:36:17 standardized trades. 01:36:20 Q. Do you have any basis to form a view as 01:36:22 to whether a use of a digital asset might 01:36:37 impact the frequency with which these types 01:36:37 MR. SPEAR: Objection, form. 01:36:41 A. I didn't entirely understand your question. 01:36:47
receive additional compensation subsequent 01:33:12  pursuant to that sale. That's the kind of 01:33:16  thing claims administrators handle all the 01:33:19  time. 01:33:22  1 Q. Isn't what your opinion here expressing 01:33:23  1 is that the claims administrator would 01:33:23  1 follow this formula? 01:33:29  4 A. Right. And to measure the amount received 01:33:32  1 majority of class members would be a 01:33:32  1 majority of class members would be a 01:33:38  1 ticket or the trading records for the small 01:33:42  minority or one-offs that might have received 01:33:54  2 compensation in a different way. That could 01:33:54  2 asked, did you receive additional 01:33:54  2 compensation for the sale. It could be a 01:33:54  2 straightforward question asked by the claims 01:33:54	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, 01:36:00 much lower in volume, if it exists at all, 01:36:05 but in a customized way. Standardization 01:36:09 allows for marketplaces to handle volume, 01:36:13 so the volume will predominantly be from 01:36:17 standardized trades. 01:36:20 Q. Do you have any basis to form a view as 01:36:22 to whether a use of a digital asset might 01:36:27 impact the frequency with which these types 01:36:33 of bilateral agreements might exist? 01:36:37 MR. SPEAR: Objection, form. 01:36:41 A. I didn't entirely understand your question. 01:36:47 describing a contract before that had what 01:36:52
receive additional compensation subsequent 01:33:12  pursuant to that sale. That's the kind of 01:33:16  thing claims administrators handle all the 01:33:19  time. 01:33:22  1 Q. Isn't what your opinion here expressing 01:33:23  1 is that the claims administrator would 01:33:23  1 follow this formula? 01:33:29  4 A. Right. And to measure the amount received 01:33:32  1 majority of class members would be a 01:33:32  majority of class members would be a 01:33:38  ticket or the trading records for the small 01:33:42  minority or one-offs that might have received 01:33:47  compensation in a different way. That could 01:33:54  asked, did you receive additional 01:33:54  compensation for the sale. It could be a 01:33:54  straightforward question asked by the claims 01:33:54  administrator in a questionnaire attached 01:34:02	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	are standardized. It's only, you know 01:35:43 even over-the-counter trades are usually 01:35:47 standardized, but over-the-counter it's 01:35:49 possible to have customized features, but 01:35:52 because they're customized, over-the-counter 01:35:58 trading in a security tends to be much, 01:36:00 much lower in volume, if it exists at all, 01:36:05 but in a customized way. Standardization 01:36:09 allows for marketplaces to handle volume, 01:36:13 so the volume will predominantly be from 01:36:17 standardized trades. 01:36:20 Q. Do you have any basis to form a view as 01:36:22 to whether a use of a digital asset might 01:36:37 impact the frequency with which these types 01:36:37 MR. SPEAR: Objection, form. 01:36:41 A. I didn't entirely understand your question. 01:36:47

1 expressed the view that that sounds 01:36:58	1 Q. What does this exhibit reflect? 01:40:53
2 aberrant or unusual to you. So my question 01:37:00	2 A. Documents that I assembled and considered 01:40:57
3 to you is whether you have a basis to 01:37:03	3 in the course of arriving at the opinions 01:41:03
4 understand whether it would actually not 01:37:06	4 expressed in this report and writing this 01:41:06
5 be so aberrant with respect to transactions 01:37:07	5 report. 01:41:08
6 involving a digital asset that has use. 01:37:11	6 Q. Is there anything that you considered in 01:41:09
7 MR. SPEAR: Objection, form. 01:37:15	7 the course of arriving at the opinions 01:41:15
8 Objection, calls for speculation. 01:37:17	8 expressed in your report that's not reflected 01:41:19
9 A. You're saying that if the asset has some 01:37:22	9 here in Exhibit 1? 01:41:21
sort of use, then customized peculiar 01:37:25	10 A. I don't think so. 01:41:22
11 features of the trans there may be more 01:37:31	11 Q. There are two bullets here towards the bottom 01:41:23
12 frequent customized peculiar features to 01:37:34	12 that describe daily XRP price and volume 01:41:31
the transaction, is that the question? And 01:37:37	data. Can you explain what those are? 01:41:41
you're asking whether I agree with that or 01:37:39	14 A. These are databases of XRP price and volume 01:41:46
15 not? 01:37:41	15 data for the periods 2013 through 2018 from 01:41:47
16 Q. Yes. 01:37:42	16 two different sources, CoinMarketCap and 01:41:50
MR. SPEAR: Objection, scope. 01:37:43	17 CoinGecko. 01:41:57
18 Objection, calls for speculation. 01:37:53	18 Q. And you obtained that data online from those 01:41:58
19 A. What I do know is that exchange trading is 01:37:57	19 websites? 01:42:02
20 facilitated by standardization and exchange 01:38:03	20 A. I obtained that data from counsel. 01:42:03
21 trading is where volume tends to be most. 01:38:07	21 Q. Did you look at not on this list or 01:42:05
22 So most trading would be standardized. It's 01:38:15	22 any trading records, did you look at any 01:42:10
23 certainly possible in an over-the-counter 01:38:21	23 trading records in considering the opinion 01:42:13
24 transaction for there to be some odd 01:38:24	24 expressed in your report? 01:42:17
25 customized features. 01:38:27	25 A. I did look at trading records for Mr. Sostack 01:42:22
Page 122	Page 124
1 Getting specifically to your 01:38:29	1 subsequent to writing this report. I 01:42:25
2 question, would there be more odd customized 01:38:30	2 think there was some reference to trading 01:42:29
2 question, would there be more odd customized 01:38:30 3 features when the digital asset has other 01:38:33	2 think there was some reference to trading 01:42:29
2 question, would there be more odd customized 01:38:30 3 features when the digital asset has other 01:38:33 4 uses? It's something I would have to study 01:38:36	think there was some reference to trading 01:42:29 records in the complaint itself, but beyond 01:42:31 that, no. 01:42:33
2 question, would there be more odd customized 01:38:30 3 features when the digital asset has other 01:38:33 4 uses? It's something I would have to study 01:38:36	think there was some reference to trading 01:42:29 records in the complaint itself, but beyond 01:42:31 that, no. 01:42:33 Q. Okay. How about documents or other 01:42:33
2 question, would there be more odd customized 01:38:30 3 features when the digital asset has other 01:38:33 4 uses? It's something I would have to study 01:38:36 5 further. I just don't know as I sit here 01:38:40 6 now. 01:38:43	think there was some reference to trading 01:42:29 records in the complaint itself, but beyond 01:42:31 that, no. 01:42:33 Q. Okay. How about documents or other 01:42:33 information concerning exchange rates between 01:42:41
2 question, would there be more odd customized 01:38:30 3 features when the digital asset has other 01:38:33 4 uses? It's something I would have to study 01:38:36 5 further. I just don't know as I sit here 01:38:40 6 now. 01:38:43	think there was some reference to trading 01:42:29 records in the complaint itself, but beyond 01:42:31 that, no. 01:42:33 Q. Okay. How about documents or other 01:42:33 information concerning exchange rates between 01:42:41
2 question, would there be more odd customized 01:38:30 3 features when the digital asset has other 01:38:33 4 uses? It's something I would have to study 01:38:36 5 further. I just don't know as I sit here 01:38:40 6 now. 01:38:43 7 Q. Sitting here today, do you know what 01:38:43 8 percentage of XRP transactions occur on 01:39:15	think there was some reference to trading 01:42:29 records in the complaint itself, but beyond 01:42:31 that, no. 01:42:33 Q. Okay. How about documents or other 01:42:33 information concerning exchange rates between 01:42:41 digital assets and U.S. dollar, did you look 01:42:46
question, would there be more odd customized 01:38:30 features when the digital asset has other 01:38:33 uses? It's something I would have to study 01:38:36 further. I just don't know as I sit here 01:38:40 now. 01:38:43 Q. Sitting here today, do you know what 01:38:43 percentage of XRP transactions occur on 01:39:15	think there was some reference to trading 01:42:29 records in the complaint itself, but beyond 01:42:31 that, no. 01:42:33 Q. Okay. How about documents or other 01:42:33 information concerning exchange rates between 01:42:41 digital assets and U.S. dollar, did you look 01:42:46 at any such document or other information 01:42:51
question, would there be more odd customized 01:38:30 features when the digital asset has other 01:38:33 uses? It's something I would have to study 01:38:36 further. I just don't know as I sit here 01:38:40 now. 01:38:43 Q. Sitting here today, do you know what 01:38:43 percentage of XRP transactions occur on 01:39:15 exchanges as compared to the ledger or 01:39:21	think there was some reference to trading 01:42:29 records in the complaint itself, but beyond 01:42:31 that, no. 01:42:33 Q. Okay. How about documents or other 01:42:33 information concerning exchange rates between 01:42:41 digital assets and U.S. dollar, did you look 01:42:46 at any such document or other information 01:42:51 in considering the opinions expressed in this 01:42:53
question, would there be more odd customized 01:38:30  features when the digital asset has other 01:38:33  uses? It's something I would have to study 01:38:36  further. I just don't know as I sit here 01:38:40  now. 01:38:43  Q. Sitting here today, do you know what 01:38:43  percentage of XRP transactions occur on 01:39:15  exchanges as compared to the ledger or 01:39:21  other sources? 01:39:24  A. Well, I don't want to say I have no idea. 01:39:27	think there was some reference to trading 01:42:29 records in the complaint itself, but beyond 01:42:31 that, no. 01:42:33  Q. Okay. How about documents or other 01:42:33 information concerning exchange rates between 01:42:41 digital assets and U.S. dollar, did you look 01:42:46 at any such document or other information 01:42:51 in considering the opinions expressed in this 01:42:53 report? 01:42:56
question, would there be more odd customized 01:38:30 features when the digital asset has other 01:38:33 uses? It's something I would have to study 01:38:36 further. I just don't know as I sit here 01:38:40 now. 01:38:43 Q. Sitting here today, do you know what 01:38:43 percentage of XRP transactions occur on 01:39:15 exchanges as compared to the ledger or 01:39:21 other sources? 01:39:24  A. Well, I don't want to say I have no idea. 01:39:35	think there was some reference to trading 01:42:29 records in the complaint itself, but beyond 01:42:31 that, no. 01:42:33 Q. Okay. How about documents or other 01:42:33 information concerning exchange rates between 01:42:41 digital assets and U.S. dollar, did you look 01:42:46 at any such document or other information 01:42:51 in considering the opinions expressed in this 01:42:53 report? 01:42:56  1. A. You mean between like Bitcoin and dollars 01:43:00
question, would there be more odd customized 01:38:30 features when the digital asset has other 01:38:33 uses? It's something I would have to study 01:38:36 further. I just don't know as I sit here 01:38:40 now. 01:38:43 Q. Sitting here today, do you know what 01:38:43 percentage of XRP transactions occur on 01:39:15 exchanges as compared to the ledger or 01:39:21 other sources? 01:39:24  A. Well, I don't want to say I have no idea. 01:39:35	think there was some reference to trading 01:42:29  records in the complaint itself, but beyond 01:42:31  that, no. 01:42:33  Q. Okay. How about documents or other 01:42:33  information concerning exchange rates between 01:42:41  digital assets and U.S. dollar, did you look 01:42:46  at any such document or other information 01:42:51  in considering the opinions expressed in this 01:42:53  report? 01:42:56  A. You mean between like Bitcoin and dollars 01:43:00  and Tether and dollars? 01:43:04
question, would there be more odd customized 01:38:30  features when the digital asset has other 01:38:33  uses? It's something I would have to study 01:38:36  further. I just don't know as I sit here 01:38:40  now. 01:38:43  Q. Sitting here today, do you know what 01:38:43  percentage of XRP transactions occur on 01:39:15  exchanges as compared to the ledger or 01:39:21  other sources? 01:39:24  A. Well, I don't want to say I have no idea. 01:39:27  I do want to point out whether it's ledger 01:39:35  trading or exchange trading, it's still 01:39:37  quint of the digital asset has other 01:38:30  one of the digital asset has other 01:38:40  one of the digital asset has other 01:38:40  one of the digital asset has other 01:38:40	think there was some reference to trading 01:42:29  records in the complaint itself, but beyond 01:42:31  that, no. 01:42:33  Q. Okay. How about documents or other 01:42:33  information concerning exchange rates between 01:42:41  digital assets and U.S. dollar, did you look 01:42:46  at any such document or other information 01:42:51  in considering the opinions expressed in this 01:42:53  report? 01:42:56  A. You mean between like Bitcoin and dollars 01:43:00  and Tether and dollars? 01:43:04  Q. Correct. 01:43:06  A. I remember I was confident the data exists. 01:43:07
question, would there be more odd customized 01:38:30  features when the digital asset has other 01:38:33  uses? It's something I would have to study 01:38:36  further. I just don't know as I sit here 01:38:40  now. 01:38:43  Q. Sitting here today, do you know what 01:38:43  percentage of XRP transactions occur on 01:39:15  exchanges as compared to the ledger or 01:39:21  other sources? 01:39:24  A. Well, I don't want to say I have no idea. 01:39:27  I do want to point out whether it's ledger 01:39:35  trading or exchange trading, it's still 01:39:37  doing to be standardized. If it's ledger 01:39:40  plus exchange versus over-the-counter, based 01:39:43	think there was some reference to trading 01:42:29  records in the complaint itself, but beyond 01:42:31  that, no. 01:42:33  Q. Okay. How about documents or other 01:42:33  information concerning exchange rates between 01:42:41  digital assets and U.S. dollar, did you look 01:42:46  at any such document or other information 01:42:51  in considering the opinions expressed in this 01:42:53  report? 01:42:56  A. You mean between like Bitcoin and dollars 01:43:00  and Tether and dollars? 01:43:04  Q. Correct. 01:43:06  A. I remember I was confident the data exists. 01:43:07  That may have been in the CoinMarket and 01:43:19
question, would there be more odd customized 01:38:30  features when the digital asset has other 01:38:33  uses? It's something I would have to study 01:38:36  further. I just don't know as I sit here 01:38:40  now. 01:38:43  Q. Sitting here today, do you know what 01:38:43  percentage of XRP transactions occur on 01:39:15  exchanges as compared to the ledger or 01:39:21  other sources? 01:39:24  A. Well, I don't want to say I have no idea. 01:39:27  I do want to point out whether it's ledger 01:39:35  trading or exchange trading, it's still 01:39:37  doing to be standardized. If it's ledger 01:39:40  plus exchange versus over-the-counter, based 01:39:43	think there was some reference to trading 01:42:29 records in the complaint itself, but beyond 01:42:31 that, no. 01:42:33 Q. Okay. How about documents or other 01:42:33 information concerning exchange rates between 01:42:41 digital assets and U.S. dollar, did you look 01:42:46 at any such document or other information 01:42:51 in considering the opinions expressed in this 01:42:53 report? 01:42:56 A. You mean between like Bitcoin and dollars 01:43:00 and Tether and dollars? 01:43:04 Q. Correct. 01:43:06 A. I remember I was confident the data exists. 01:43:07 That may have been in the CoinMarket and 01:43:19
question, would there be more odd customized 01:38:30 3 features when the digital asset has other 01:38:33 4 uses? It's something I would have to study 01:38:36 5 further. I just don't know as I sit here 01:38:40 6 now. 01:38:43 7 Q. Sitting here today, do you know what 01:38:43 8 percentage of XRP transactions occur on 01:39:15 9 exchanges as compared to the ledger or 01:39:21 10 other sources? 01:39:24 11 A. Well, I don't want to say I have no idea. 01:39:27 12 I do want to point out whether it's ledger 01:39:35 13 trading or exchange trading, it's still 01:39:37 14 going to be standardized. If it's ledger 01:39:40 15 plus exchange versus over-the-counter, based 01:39:43 16 on economic principles, I would surmise 01:39:51 17 that exchange and ledger is far greater than 01:39:55	think there was some reference to trading 01:42:29  records in the complaint itself, but beyond 01:42:31  that, no. 01:42:33  Q. Okay. How about documents or other 01:42:31  digital assets and U.S. dollar, did you look 01:42:41  digital assets and U.S. dollar, did you look 01:42:46  at any such document or other information 01:42:51  in considering the opinions expressed in this 01:42:53  report? 01:42:56  A. You mean between like Bitcoin and dollars 01:43:00  and Tether and dollars? 01:43:04  Q. Correct. 01:43:06  A. I remember I was confident the data exists. 01:43:07  That may have been in the CoinMarket and 01:43:19  CoinGecko data just to satisfy my interest 01:43:27  in knowing whether that kind of data exists. 01:43:27
question, would there be more odd customized 01:38:30 3 features when the digital asset has other 01:38:33 4 uses? It's something I would have to study 01:38:36 5 further. I just don't know as I sit here 01:38:40 6 now. 01:38:43 7 Q. Sitting here today, do you know what 01:38:43 8 percentage of XRP transactions occur on 01:39:15 9 exchanges as compared to the ledger or 01:39:21 10 other sources? 01:39:24 11 A. Well, I don't want to say I have no idea. 01:39:27 12 I do want to point out whether it's ledger 01:39:35 13 trading or exchange trading, it's still 01:39:37 14 going to be standardized. If it's ledger 01:39:40 15 plus exchange versus over-the-counter, based 01:39:43 16 on economic principles, I would surmise 01:39:51 17 that exchange and ledger is far greater than 01:39:55 18 over-the-counter in terms of the number 01:40:01	think there was some reference to trading 01:42:29  records in the complaint itself, but beyond 01:42:31  that, no. 01:42:33  Q. Okay. How about documents or other 01:42:33  information concerning exchange rates between 01:42:41  digital assets and U.S. dollar, did you look 01:42:46  at any such document or other information 01:42:51  in considering the opinions expressed in this 01:42:53  report? 01:42:56  A. You mean between like Bitcoin and dollars 01:43:00  and Tether and dollars? 01:43:04  Q. Correct. 01:43:06  A. I remember I was confident the data exists. 01:43:07  That may have been in the CoinMarket and 01:43:19  CoinGecko data just to satisfy my interest 01:43:22  in knowing whether that kind of data exists. 01:43:27  R. You previously testified that Bloomberg has 01:43:29
question, would there be more odd customized 01:38:30 3 features when the digital asset has other 01:38:33 4 uses? It's something I would have to study 01:38:36 5 further. I just don't know as I sit here 01:38:40 6 now. 01:38:43 7 Q. Sitting here today, do you know what 01:38:43 8 percentage of XRP transactions occur on 01:39:15 9 exchanges as compared to the ledger or 01:39:21 10 other sources? 01:39:24 11 A. Well, I don't want to say I have no idea. 01:39:27 12 I do want to point out whether it's ledger 01:39:35 13 trading or exchange trading, it's still 01:39:37 14 going to be standardized. If it's ledger 01:39:40 15 plus exchange versus over-the-counter, based 01:39:43 16 on economic principles, I would surmise 01:39:51 17 that exchange and ledger is far greater than 01:39:55 18 over-the-counter in terms of the number 01:40:01 19 of trades. Beyond that, it's something I 01:40:03	think there was some reference to trading 01:42:29 records in the complaint itself, but beyond 01:42:31 that, no. 01:42:33 Q. Okay. How about documents or other 01:42:33 information concerning exchange rates between 01:42:41 digital assets and U.S. dollar, did you look 01:42:46 at any such document or other information 01:42:51 in considering the opinions expressed in this 01:42:53 report? 01:42:56 A. You mean between like Bitcoin and dollars 01:43:00 and Tether and dollars? 01:43:04 Q. Correct. 01:43:06 A. I remember I was confident the data exists. 01:43:07 That may have been in the CoinMarket and 01:43:19 CoinGecko data just to satisfy my interest 01:43:27 in knowing whether that kind of data exists. 01:43:27 R. You previously testified that Bloomberg has 01:43:29 such data? 01:43:36
question, would there be more odd customized 01:38:30 3 features when the digital asset has other 01:38:33 4 uses? It's something I would have to study 01:38:36 5 further. I just don't know as I sit here 01:38:40 6 now. 01:38:43 7 Q. Sitting here today, do you know what 01:38:43 8 percentage of XRP transactions occur on 01:39:15 9 exchanges as compared to the ledger or 01:39:21 10 other sources? 01:39:24 11 A. Well, I don't want to say I have no idea. 01:39:27 12 I do want to point out whether it's ledger 01:39:35 13 trading or exchange trading, it's still 01:39:37 14 going to be standardized. If it's ledger 01:39:40 15 plus exchange versus over-the-counter, based 01:39:43 16 on economic principles, I would surmise 01:39:51 17 that exchange and ledger is far greater than 01:39:55 18 over-the-counter in terms of the number 01:40:01 19 of trades. Beyond that, it's something I 01:40:03 20 can research. I don't have the answer to it, 01:40:08	think there was some reference to trading 01:42:29 records in the complaint itself, but beyond 01:42:31 that, no. 01:42:33 Q. Okay. How about documents or other 01:42:33 information concerning exchange rates between 01:42:41 digital assets and U.S. dollar, did you look 01:42:46 at any such document or other information 01:42:51 in considering the opinions expressed in this 01:42:53 report? 01:42:56 A. You mean between like Bitcoin and dollars 01:43:00 and Tether and dollars? 01:43:04 Q. Correct. 01:43:06 A. I remember I was confident the data exists. 01:43:07 That may have been in the CoinMarket and 01:43:19 CoinGecko data just to satisfy my interest 01:43:27 R. Q. You previously testified that Bloomberg has 01:43:29 such data? 01:43:36 A. Right, but I looked at Bloomberg after 01:43:37
question, would there be more odd customized 01:38:30 3 features when the digital asset has other 01:38:33 4 uses? It's something I would have to study 01:38:36 5 further. I just don't know as I sit here 01:38:40 6 now. 01:38:43 7 Q. Sitting here today, do you know what 01:38:43 8 percentage of XRP transactions occur on 01:39:15 9 exchanges as compared to the ledger or 01:39:21 10 other sources? 01:39:24 11 A. Well, I don't want to say I have no idea. 01:39:27 12 I do want to point out whether it's ledger 01:39:35 13 trading or exchange trading, it's still 01:39:37 14 going to be standardized. If it's ledger 01:39:40 15 plus exchange versus over-the-counter, based 01:39:43 16 on economic principles, I would surmise 01:39:51 17 that exchange and ledger is far greater than 01:39:55 18 over-the-counter in terms of the number 01:40:01 19 of trades. Beyond that, it's something I 01:40:03 20 can research. I don't have the answer to it, 01:40:08 21 more precise answer sitting here now. 01:40:12	think there was some reference to trading 01:42:29  records in the complaint itself, but beyond 01:42:31  that, no. 01:42:33  Q. Okay. How about documents or other 01:42:33  information concerning exchange rates between 01:42:41  digital assets and U.S. dollar, did you look 01:42:46  at any such document or other information 01:42:51  in considering the opinions expressed in this 01:42:53  report? 01:42:56  A. You mean between like Bitcoin and dollars 01:43:00  and Tether and dollars? 01:43:04  Q. Correct. 01:43:06  A. I remember I was confident the data exists. 01:43:07  That may have been in the CoinMarket and 01:43:19  CoinGecko data just to satisfy my interest 01:43:27  R. You previously testified that Bloomberg has 01:43:29  such data? 01:43:36  A. Right, but I looked at Bloomberg after 01:43:40
question, would there be more odd customized 01:38:30 3 features when the digital asset has other 01:38:33 4 uses? It's something I would have to study 01:38:36 5 further. I just don't know as I sit here 01:38:40 6 now. 01:38:43 7 Q. Sitting here today, do you know what 01:38:43 8 percentage of XRP transactions occur on 01:39:15 9 exchanges as compared to the ledger or 01:39:21 10 other sources? 01:39:24 11 A. Well, I don't want to say I have no idea. 01:39:27 12 I do want to point out whether it's ledger 01:39:35 13 trading or exchange trading, it's still 01:39:37 14 going to be standardized. If it's ledger 01:39:40 15 plus exchange versus over-the-counter, based 01:39:43 16 on economic principles, I would surmise 01:39:51 17 that exchange and ledger is far greater than 01:39:55 18 over-the-counter in terms of the number 01:40:01 19 of trades. Beyond that, it's something I 01:40:03 20 can research. I don't have the answer to it, 01:40:08 21 more precise answer sitting here now. 01:40:15	think there was some reference to trading 01:42:29  records in the complaint itself, but beyond 01:42:31  that, no. 01:42:33  Q. Okay. How about documents or other 01:42:33  information concerning exchange rates between 01:42:41  digital assets and U.S. dollar, did you look 01:42:46  at any such document or other information 01:42:51  in considering the opinions expressed in this 01:42:53  report? 01:42:56  A. You mean between like Bitcoin and dollars 01:43:00  and Tether and dollars? 01:43:04  A. I remember I was confident the data exists. 01:43:07  That may have been in the CoinMarket and 01:43:19  CoinGecko data just to satisfy my interest 01:43:22  in knowing whether that kind of data exists. 01:43:27  R. You previously testified that Bloomberg has 01:43:29  such data? 01:43:36  A. Right, but I looked at Bloomberg after 01:43:40  believed to be the case when I was writing 01:43:43
question, would there be more odd customized 01:38:30 3 features when the digital asset has other 01:38:33 4 uses? It's something I would have to study 01:38:36 5 further. I just don't know as I sit here 01:38:40 6 now. 01:38:43 7 Q. Sitting here today, do you know what 01:38:43 8 percentage of XRP transactions occur on 01:39:15 9 exchanges as compared to the ledger or 01:39:21 10 other sources? 01:39:24 11 A. Well, I don't want to say I have no idea. 01:39:27 12 I do want to point out whether it's ledger 01:39:35 13 trading or exchange trading, it's still 01:39:37 14 going to be standardized. If it's ledger 01:39:40 15 plus exchange versus over-the-counter, based 01:39:43 16 on economic principles, I would surmise 01:39:51 17 that exchange and ledger is far greater than 01:39:55 18 over-the-counter in terms of the number 01:40:01 19 of trades. Beyond that, it's something I 01:40:03 20 can research. I don't have the answer to it, 01:40:08 21 more precise answer sitting here now. 01:40:12 22 Q. If you turn to Page 8, bottom of the page, 01:40:15 23 Page 8 of your report which is Exhibit 1, 01:40:46	think there was some reference to trading 01:42:29  records in the complaint itself, but beyond 01:42:31  that, no. 01:42:33  Q. Okay. How about documents or other 01:42:33  information concerning exchange rates between 01:42:41  digital assets and U.S. dollar, did you look 01:42:46  at any such document or other information 01:42:51  in considering the opinions expressed in this 01:42:53  report? 01:42:56  A. You mean between like Bitcoin and dollars 01:43:00  and Tether and dollars? 01:43:04  Q. Correct. 01:43:06  A. I remember I was confident the data exists. 01:43:07  That may have been in the CoinMarket and 01:43:19  CoinGecko data just to satisfy my interest 01:43:22  in knowing whether that kind of data exists. 01:43:27  R. You previously testified that Bloomberg has 01:43:29  such data? 01:43:36  A. Right, but I looked at Bloomberg after 01:43:40  believed to be the case when I was writing 01:43:43  the report. 01:43:45
question, would there be more odd customized 01:38:30  features when the digital asset has other 01:38:33  uses? It's something I would have to study 01:38:36  further. I just don't know as I sit here 01:38:40  now. 01:38:43  Q. Sitting here today, do you know what 01:38:43  percentage of XRP transactions occur on 01:39:15  exchanges as compared to the ledger or 01:39:21  other sources? 01:39:24  A. Well, I don't want to say I have no idea. 01:39:27  I do want to point out whether it's ledger 01:39:35  trading or exchange trading, it's still 01:39:37  going to be standardized. If it's ledger 01:39:40  plus exchange versus over-the-counter, based 01:39:43  on economic principles, I would surmise 01:39:51  that exchange and ledger is far greater than 01:39:55  over-the-counter in terms of the number 01:40:01  of trades. Beyond that, it's something I 01:40:03  can research. I don't have the answer to it, 01:40:08  more precise answer sitting here now. 01:40:12  Q. If you turn to Page 8, bottom of the page, 01:40:15  Page 8 of your report which is Exhibit 1, 01:40:46  documents and other information considered. 01:40:51	think there was some reference to trading 01:42:29  records in the complaint itself, but beyond 01:42:31  that, no. 01:42:33  Q. Okay. How about documents or other 01:42:31  digital assets and U.S. dollar, did you look 01:42:41  digital assets and U.S. dollar, did you look 01:42:46  at any such document or other information 01:42:51  in considering the opinions expressed in this 01:42:53  report? 01:42:56  A. You mean between like Bitcoin and dollars 01:43:00  and Tether and dollars? 01:43:04  Q. Correct. 01:43:06  A. I remember I was confident the data exists. 01:43:07  That may have been in the CoinMarket and 01:43:19  CoinGecko data just to satisfy my interest 01:43:22  in knowing whether that kind of data exists. 01:43:27  Q. You previously testified that Bloomberg has 01:43:29  such data? 01:43:36  A. Right, but I looked at Bloomberg after 01:43:40  believed to be the case when I was writing 01:43:43  the report. 01:43:45  Q. I see. So at the time you wrote the report, 01:43:45
question, would there be more odd customized 01:38:30  features when the digital asset has other 01:38:33  uses? It's something I would have to study 01:38:36  further. I just don't know as I sit here 01:38:40  now. 01:38:43  Q. Sitting here today, do you know what 01:38:43  percentage of XRP transactions occur on 01:39:15  exchanges as compared to the ledger or 01:39:21  other sources? 01:39:24  A. Well, I don't want to say I have no idea. 01:39:27  I do want to point out whether it's ledger 01:39:35  trading or exchange trading, it's still 01:39:37  going to be standardized. If it's ledger 01:39:40  plus exchange versus over-the-counter, based 01:39:43  on economic principles, I would surmise 01:39:51  that exchange and ledger is far greater than 01:39:55  over-the-counter in terms of the number 01:40:01  of trades. Beyond that, it's something I 01:40:03  can research. I don't have the answer to it, 01:40:08  more precise answer sitting here now. 01:40:12  Q. If you turn to Page 8, bottom of the page, 01:40:15  Page 8 of your report which is Exhibit 1, 01:40:46	think there was some reference to trading 01:42:29  records in the complaint itself, but beyond 01:42:31  that, no. 01:42:33  Q. Okay. How about documents or other 01:42:33  information concerning exchange rates between 01:42:41  digital assets and U.S. dollar, did you look 01:42:46  at any such document or other information 01:42:51  in considering the opinions expressed in this 01:42:53  report? 01:42:56  A. You mean between like Bitcoin and dollars 01:43:00  and Tether and dollars? 01:43:04  Q. Correct. 01:43:06  A. I remember I was confident the data exists. 01:43:07  That may have been in the CoinMarket and 01:43:19  CoinGecko data just to satisfy my interest 01:43:22  in knowing whether that kind of data exists. 01:43:27  R. You previously testified that Bloomberg has 01:43:29  such data? 01:43:36  A. Right, but I looked at Bloomberg after 01:43:40  believed to be the case when I was writing 01:43:43  the report. 01:43:45

1 of data would be available? 01:43:51	1 hourly rate for the time of your staff? 01:45:59
2 A. Yes. 01:43:52	2 A. That's right. 01:46:01
3 Q. And you're unsure I don't want to put 01:43:53	3 Q. How many hours would you estimate that 01:46:01
4 words in your mouth, but you're unsure as 01:43:53	4 you've worked on this case so far? 01:46:03
5 to whether you'd actually checked 01:43:58	5 MR. SPEAR: Objection, scope. 01:46:07
6 CoinMarketCap.com or CoinGecko.com for such 01:44:00	6 You're asking in relation to this report 01:46:13
7 information prior to 01:44:06	7 or for I mean, we also have an expert 01:46:15
8 A. I remember I was confident that I was 01:44:06	8 period coming up for 01:46:17
9 right, and I was right. I don't remember 01:44:10	9 MR. MICHAELSON: So far, so far in 01:46:18
where I got that confidence from, whether 01:44:11	10 this case. 01:46:20
11 it was from CoinMarketCap, CoinGecko or 01:44:14	11 MR. SPEAR: Okay. Go ahead. 01:46:20
12 any of the articles here, or just things I 01:44:18	12 A. I don't know. I just don't recall. There 01:46:22
13 had seen previously and not specifically 01:44:21	13 are records for this and I can venture a 01:46:27
14 attached to this case but in the course of 01:44:24	14 guess. 01:46:30
15 keeping abreast of the markets. 01:44:26	15 Q. Can you ballpark it? 01:46:30
16 Q. Any other documents or information that 01:44:28	16 A. Prior to preparation for the deposition? 01:46:32
you considered in arriving at the report 01:44:40	17 Q. Up to today. 01:46:36
18 beyond what's listed here in Exhibit 1 and 01:44:42	18 A. I would guess 50 hours, in the neighborhood 01:46:38
19 what we've just discussed? 01:44:44	19 of 50 hours, but I just don't recall. And 01:46:43
20 A. I don't believe so. 01:44:46	20 I just want to caveat that answer with it 01:46:45
21 Q. So you've been retained by the plaintiff 01:44:47	21 may not be precise. It's an estimate. It 01:46:48
22 in this case to serve as an expert, right? 01:44:53	may not even be close, but it's a reasonable 01:46:57
23 A. Yes, to provide analysis and arrive at 01:44:59	23 ballpark. 01:47:01
24 conclusions based on that analysis, explain 01:45:02	24 Q. Broadly speaking, you receive income from 01:47:01
25 those conclusions to the court and you. 01:45:04	25 your job as a professor? 01:47:04
Page 126	Page 128
1 That's the engagement. 01:45:08	1 A. That's right. 01:47:05
2 Q. And you state in your report that you 01:45:10	2 Q. You also receive income from your work as 01:47:06
2 Q. And you state in your report that you 01:45:10 3 provided expert analysis in more than 01:45:12	2 Q. You also receive income from your work as 01:47:06 3 an expert witness? 01:47:09
3 provided expert analysis in more than 01:45:12	3 an expert witness? 01:47:09
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15	3 an expert witness? 01:47:09 4 A. Yes. 01:47:10
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16	3 an expert witness? 01:47:09 4 A. Yes. 01:47:10 5 Q. More broadly, that latter category, you 01:47:11
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16	3 an expert witness? 01:47:09 4 A. Yes. 01:47:10 5 Q. More broadly, that latter category, you 01:47:11 6 receive income through your work at 01:47:16
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19	3 an expert witness? 01:47:09 4 A. Yes. 01:47:10 5 Q. More broadly, that latter category, you 01:47:11 6 receive income through your work at 01:47:16 7 Crowninshield, right? 01:47:18
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21	3 an expert witness? 01:47:09 4 A. Yes. 01:47:10 5 Q. More broadly, that latter category, you 01:47:11 6 receive income through your work at 01:47:16 7 Crowninshield, right? 01:47:18 8 A. That's right. I own the company. 01:47:19
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21	3 an expert witness? 01:47:09 4 A. Yes. 01:47:10 5 Q. More broadly, that latter category, you 01:47:11 6 receive income through your work at 01:47:16 7 Crowninshield, right? 01:47:18 8 A. That's right. I own the company. 01:47:19 9 Q. Right. 01:47:20
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21 10 A. Correct. 01:45:26	3 an expert witness? 01:47:09 4 A. Yes. 01:47:10 5 Q. More broadly, that latter category, you 01:47:11 6 receive income through your work at 01:47:16 7 Crowninshield, right? 01:47:18 8 A. That's right. I own the company. 01:47:19 9 Q. Right. 01:47:20
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21 10 A. Correct. 01:45:26 11 Q. Does that rate change depending on the type 01:45:26	3 an expert witness? 01:47:09 4 A. Yes. 01:47:10 5 Q. More broadly, that latter category, you 01:47:11 6 receive income through your work at 01:47:16 7 Crowninshield, right? 01:47:18 8 A. That's right. I own the company. 01:47:19 9 Q. Right. 01:47:20 10 A. Okay. 01:47:20 11 Q. Give me a ballpark on a percentage basis 01:47:23
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21 10 A. Correct. 01:45:26 11 Q. Does that rate change depending on the type 01:45:26 12 of work that you're doing? 01:45:28	3 an expert witness? 01:47:09 4 A. Yes. 01:47:10 5 Q. More broadly, that latter category, you 01:47:11 6 receive income through your work at 01:47:16 7 Crowninshield, right? 01:47:18 8 A. That's right. I own the company. 01:47:19 9 Q. Right. 01:47:20 10 A. Okay. 01:47:20 11 Q. Give me a ballpark on a percentage basis 01:47:23 12 over the last five years, what percentage of 01:47:24
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21 10 A. Correct. 01:45:26 11 Q. Does that rate change depending on the type 01:45:26 12 of work that you're doing? 01:45:28 13 A. No. 01:45:29	3 an expert witness? 01:47:09 4 A. Yes. 01:47:10 5 Q. More broadly, that latter category, you 01:47:11 6 receive income through your work at 01:47:16 7 Crowninshield, right? 01:47:18 8 A. That's right. I own the company. 01:47:19 9 Q. Right. 01:47:20 10 A. Okay. 01:47:20 11 Q. Give me a ballpark on a percentage basis 01:47:23 12 over the last five years, what percentage of 01:47:24 13 your income would you say has come from 01:47:27
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21 10 A. Correct. 01:45:26 11 Q. Does that rate change depending on the type 01:45:26 12 of work that you're doing? 01:45:28 13 A. No. 01:45:29 14 Q. Is there a different rate for appearance at 01:45:29	3 an expert witness? 01:47:09 4 A. Yes. 01:47:10 5 Q. More broadly, that latter category, you 01:47:11 6 receive income through your work at 01:47:16 7 Crowninshield, right? 01:47:18 8 A. That's right. I own the company. 01:47:19 9 Q. Right. 01:47:20 10 A. Okay. 01:47:20 11 Q. Give me a ballpark on a percentage basis 01:47:23 12 over the last five years, what percentage of 01:47:24 13 your income would you say has come from 01:47:27 14 Crowninshield as compared to your teaching? 01:47:29
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21 10 A. Correct. 01:45:26 11 Q. Does that rate change depending on the type 01:45:26 12 of work that you're doing? 01:45:28 13 A. No. 01:45:29 14 Q. Is there a different rate for appearance at 01:45:29 15 a trial or deposition? 01:45:34	3 an expert witness? 01:47:09 4 A. Yes. 01:47:10 5 Q. More broadly, that latter category, you 01:47:11 6 receive income through your work at 01:47:16 7 Crowninshield, right? 01:47:18 8 A. That's right. I own the company. 01:47:19 9 Q. Right. 01:47:20 10 A. Okay. 01:47:20 11 Q. Give me a ballpark on a percentage basis 01:47:23 12 over the last five years, what percentage of 01:47:24 13 your income would you say has come from 01:47:27 14 Crowninshield as compared to your teaching? 01:47:29 15 A. It varies from year to year, but averaging 01:47:38
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21 10 A. Correct. 01:45:26 11 Q. Does that rate change depending on the type 01:45:26 12 of work that you're doing? 01:45:28 13 A. No. 01:45:29 14 Q. Is there a different rate for appearance at 01:45:29 15 a trial or deposition? 01:45:34 16 A. No. I do want to point out just for 01:45:35	an expert witness? 01:47:09  4 A. Yes. 01:47:10  5 Q. More broadly, that latter category, you 01:47:11  6 receive income through your work at 01:47:16  7 Crowninshield, right? 01:47:18  8 A. That's right. I own the company. 01:47:19  9 Q. Right. 01:47:20  10 A. Okay. 01:47:20  11 Q. Give me a ballpark on a percentage basis 01:47:23  12 over the last five years, what percentage of 01:47:24  13 your income would you say has come from 01:47:27  14 Crowninshield as compared to your teaching? 01:47:29  15 A. It varies from year to year, but averaging 01:47:38  16 over the last five years, approximately 01:47:41
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21 10 A. Correct. 01:45:26 11 Q. Does that rate change depending on the type 01:45:26 12 of work that you're doing? 01:45:28 13 A. No. 01:45:29 14 Q. Is there a different rate for appearance at 01:45:29 15 a trial or deposition? 01:45:34 16 A. No. I do want to point out just for 01:45:35 17 completeness of the record that I also 01:45:38	an expert witness? 01:47:09  4 A. Yes. 01:47:10  5 Q. More broadly, that latter category, you 01:47:11  6 receive income through your work at 01:47:16  7 Crowninshield, right? 01:47:18  8 A. That's right. I own the company. 01:47:19  9 Q. Right. 01:47:20  10 A. Okay. 01:47:20  11 Q. Give me a ballpark on a percentage basis 01:47:23  12 over the last five years, what percentage of 01:47:24  13 your income would you say has come from 01:47:27  14 Crowninshield as compared to your teaching? 01:47:29  15 A. It varies from year to year, but averaging 01:47:38  16 over the last five years, approximately 01:47:41  17 80 percent from consulting work, could be 01:47:44
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21 10 A. Correct. 01:45:26 11 Q. Does that rate change depending on the type 01:45:26 12 of work that you're doing? 01:45:28 13 A. No. 01:45:29 14 Q. Is there a different rate for appearance at 01:45:29 15 a trial or deposition? 01:45:34 16 A. No. I do want to point out just for 01:45:35 17 completeness of the record that I also 01:45:39 18 receive compensation for the people that 01:45:39	an expert witness? 01:47:09  4 A. Yes. 01:47:10  5 Q. More broadly, that latter category, you 01:47:11  6 receive income through your work at 01:47:16  7 Crowninshield, right? 01:47:18  8 A. That's right. I own the company. 01:47:19  9 Q. Right. 01:47:20  10 A. Okay. 01:47:20  11 Q. Give me a ballpark on a percentage basis 01:47:23  12 over the last five years, what percentage of 01:47:24  13 your income would you say has come from 01:47:27  14 Crowninshield as compared to your teaching? 01:47:29  15 A. It varies from year to year, but averaging 01:47:38  16 over the last five years, approximately 01:47:41  17 80 percent from consulting work, could be 01:47:49
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21 10 A. Correct. 01:45:26 11 Q. Does that rate change depending on the type 01:45:26 12 of work that you're doing? 01:45:28 13 A. No. 01:45:29 14 Q. Is there a different rate for appearance at 01:45:29 15 a trial or deposition? 01:45:34 16 A. No. I do want to point out just for 01:45:35 17 completeness of the record that I also 01:45:38 18 receive compensation for the people that 01:45:39 19 work under me as the firm is paid, and 01:45:42	an expert witness? 01:47:09  4 A. Yes. 01:47:10  5 Q. More broadly, that latter category, you 01:47:11  6 receive income through your work at 01:47:16  7 Crowninshield, right? 01:47:18  8 A. That's right. I own the company. 01:47:19  9 Q. Right. 01:47:20  10 A. Okay. 01:47:20  11 Q. Give me a ballpark on a percentage basis 01:47:23  12 over the last five years, what percentage of 01:47:24  13 your income would you say has come from 01:47:27  14 Crowninshield as compared to your teaching? 01:47:29  15 A. It varies from year to year, but averaging 01:47:38  16 over the last five years, approximately 01:47:41  17 80 percent from consulting work, could be 01:47:44  18 as high as 90 in some years, but between 80 01:47:49  19 and 90. 01:47:53
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21 10 A. Correct. 01:45:26 11 Q. Does that rate change depending on the type 01:45:26 12 of work that you're doing? 01:45:28 13 A. No. 01:45:29 14 Q. Is there a different rate for appearance at 01:45:29 15 a trial or deposition? 01:45:34 16 A. No. I do want to point out just for 01:45:35 17 completeness of the record that I also 01:45:38 18 receive compensation for the people that 01:45:39 19 work under me as the firm is paid, and 01:45:42 20 then I receive money from the firm. So 01:45:46	an expert witness? 01:47:09  4 A. Yes. 01:47:10  5 Q. More broadly, that latter category, you 01:47:11  6 receive income through your work at 01:47:16  7 Crowninshield, right? 01:47:18  8 A. That's right. I own the company. 01:47:19  9 Q. Right. 01:47:20  10 A. Okay. 01:47:20  11 Q. Give me a ballpark on a percentage basis 01:47:23  12 over the last five years, what percentage of 01:47:24  13 your income would you say has come from 01:47:27  14 Crowninshield as compared to your teaching? 01:47:29  15 A. It varies from year to year, but averaging 01:47:41  16 over the last five years, approximately 01:47:41  17 80 percent from consulting work, could be 01:47:44  18 as high as 90 in some years, but between 80 01:47:49  19 and 90. 01:47:53  20 Q. Okay. So in the course of this expert work, 01:47:54
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21 10 A. Correct. 01:45:26 11 Q. Does that rate change depending on the type 01:45:26 12 of work that you're doing? 01:45:28 13 A. No. 01:45:29 14 Q. Is there a different rate for appearance at 01:45:29 15 a trial or deposition? 01:45:34 16 A. No. I do want to point out just for 01:45:35 17 completeness of the record that I also 01:45:38 18 receive compensation for the people that 01:45:39 19 work under me as the firm is paid, and 01:45:42 20 then I receive money from the firm. So 01:45:50	an expert witness? 01:47:09  4 A. Yes. 01:47:10  5 Q. More broadly, that latter category, you 01:47:11  6 receive income through your work at 01:47:16  7 Crowninshield, right? 01:47:18  8 A. That's right. I own the company. 01:47:19  9 Q. Right. 01:47:20  10 A. Okay. 01:47:20  11 Q. Give me a ballpark on a percentage basis 01:47:23  12 over the last five years, what percentage of 01:47:24  13 your income would you say has come from 01:47:27  14 Crowninshield as compared to your teaching? 01:47:29  15 A. It varies from year to year, but averaging 01:47:38  16 over the last five years, approximately 01:47:41  17 80 percent from consulting work, could be 01:47:44  18 as high as 90 in some years, but between 80 01:47:49  19 and 90. 01:47:53  20 Q. Okay. So in the course of this expert work, 01:47:54  21 you've issued reports, correct? Is that for 01:47:58
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21 10 A. Correct. 01:45:26 11 Q. Does that rate change depending on the type 01:45:26 12 of work that you're doing? 01:45:28 13 A. No. 01:45:29 14 Q. Is there a different rate for appearance at 01:45:29 15 a trial or deposition? 01:45:34 16 A. No. I do want to point out just for 01:45:35 17 completeness of the record that I also 01:45:38 18 receive compensation for the people that 01:45:39 19 work under me as the firm is paid, and 01:45:42 20 then I receive money from the firm. So 01:45:46 21 it's not just my hours. It's also the 01:45:50 22 hours of the people that work for me on 01:45:52	an expert witness? 01:47:09  4 A. Yes. 01:47:10  5 Q. More broadly, that latter category, you 01:47:11  6 receive income through your work at 01:47:16  7 Crowninshield, right? 01:47:18  8 A. That's right. I own the company. 01:47:19  9 Q. Right. 01:47:20  10 A. Okay. 01:47:20  11 Q. Give me a ballpark on a percentage basis 01:47:23  12 over the last five years, what percentage of 01:47:24  13 your income would you say has come from 01:47:27  14 Crowninshield as compared to your teaching? 01:47:29  15 A. It varies from year to year, but averaging 01:47:38  16 over the last five years, approximately 01:47:41  17 80 percent from consulting work, could be 01:47:44  18 as high as 90 in some years, but between 80 01:47:49  19 and 90. 01:47:53  20 Q. Okay. So in the course of this expert work, 01:47:54  21 you've issued reports, correct? Is that for 01:47:58  22 testimony, correct? 01:48:02
3 provided expert analysis in more than 01:45:12 4 150 cases, is that right? 01:45:15 5 A. That's right. 01:45:16 6 Q. You're being paid by the hour for the work 01:45:16 7 that you're performing in this case? 01:45:19 8 A. Yes. 01:45:21 9 Q. At a rate of \$950 an hour, is that right? 01:45:21 10 A. Correct. 01:45:26 11 Q. Does that rate change depending on the type 01:45:26 12 of work that you're doing? 01:45:28 13 A. No. 01:45:29 14 Q. Is there a different rate for appearance at 01:45:29 15 a trial or deposition? 01:45:34 16 A. No. I do want to point out just for 01:45:35 17 completeness of the record that I also 01:45:38 18 receive compensation for the people that 01:45:39 19 work under me as the firm is paid, and 01:45:42 20 then I receive money from the firm. So 01:45:46 21 it's not just my hours. It's also the 01:45:50 22 hours of the people that work for me on 01:45:52 23 this case. 01:45:53	an expert witness? 01:47:09  4 A. Yes. 01:47:10  5 Q. More broadly, that latter category, you 01:47:11  6 receive income through your work at 01:47:16  7 Crowninshield, right? 01:47:18  8 A. That's right. I own the company. 01:47:19  9 Q. Right. 01:47:20  10 A. Okay. 01:47:20  11 Q. Give me a ballpark on a percentage basis 01:47:23  12 over the last five years, what percentage of 01:47:24  13 your income would you say has come from 01:47:27  14 Crowninshield as compared to your teaching? 01:47:29  15 A. It varies from year to year, but averaging 01:47:38  16 over the last five years, approximately 01:47:41  17 80 percent from consulting work, could be 01:47:49  18 as high as 90 in some years, but between 80 01:47:49  19 and 90. 01:47:53  20 Q. Okay. So in the course of this expert work, 01:47:54  21 you've issued reports, correct? Is that for 01:48:02  23 A. Conduct analysis, conduct research, supervise 01:48:04
provided expert analysis in more than 01:45:12  150 cases, is that right? 01:45:15  A. That's right. 01:45:16  Q. You're being paid by the hour for the work 01:45:16  that you're performing in this case? 01:45:19  A. Yes. 01:45:21  Q. At a rate of \$950 an hour, is that right? 01:45:21  A. Correct. 01:45:26  Q. Does that rate change depending on the type 01:45:26  of work that you're doing? 01:45:28  A. No. 01:45:29  Q. Is there a different rate for appearance at 01:45:29  a trial or deposition? 01:45:34  A. No. I do want to point out just for 01:45:35  completeness of the record that I also 01:45:39  work under me as the firm is paid, and 01:45:42  then I receive money from the firm. So 01:45:50  hours of the people that work for me on 01:45:52  this case. 01:45:53  24 Q. I see. The plaintiff is paying an hourly 01:45:53	an expert witness? 01:47:09  4 A. Yes. 01:47:10  5 Q. More broadly, that latter category, you 01:47:11  6 receive income through your work at 01:47:16  7 Crowninshield, right? 01:47:18  8 A. That's right. I own the company. 01:47:19  9 Q. Right. 01:47:20  10 A. Okay. 01:47:20  11 Q. Give me a ballpark on a percentage basis 01:47:23  12 over the last five years, what percentage of 01:47:24  13 your income would you say has come from 01:47:27  14 Crowninshield as compared to your teaching? 01:47:29  15 A. It varies from year to year, but averaging 01:47:41  16 over the last five years, approximately 01:47:41  17 80 percent from consulting work, could be 01:47:44  18 as high as 90 in some years, but between 80 01:47:49  19 and 90. 01:47:53  20 Q. Okay. So in the course of this expert work, 01:47:54  21 you've issued reports, correct? Is that for 01:47:58  22 testimony, correct? 01:48:02  23 A. Conduct analysis, conduct research, supervise 01:48:04  24 the staff, help manage the firm, right, 01:48:06

1 A. That's why I provided four years and not 01:51:27 2 Q. Has any of the cases in which you've served 01:48:16 3 as an expert witness, has the opposing 01:48:18 4 counsel moved to disqualify you under 01:48:21 5 Daubert? 01:48:26 6 A. Yes. 01:48:26 7 Q. How many times? 01:48:30 9 at least try, so it's very frequently. 01:48:32 10 Q. Okay. And have opposing counsel ever 01:48:30 11 succeeded in disqualifying you as an expert 01:48:48 12 under Daubert? 01:48:48 13 A. Yes, once. In over 150, maybe 200 cases it 01:48:48 14 has happened exactly once. 01:48:55 15 Q. And what year was that? 01:48:56 16 A. Apparently, it was longer ago than four years ago. 11:49:34 19 because I'm looking at my Exhibit 3 and 01:49:34 20 Li see you're referring to Exhibit 3 of your 12:50:09 21 Li see you're referring to Exhibit 3 of your 12:50:09 21 Control of the cases in which you've served 01:48:48 22 Grive. Ten years of reports were provided 01:51:31 3 because you asked for them. 01:51:33 4 Q. In what case was the Daubert successful? 01:51:35 5 A. It was a FreddieMac securities litigation. 01:51:39 4 Q. In what case was the Daubert successful? 01:51:39 4 Q. In what case was the Daubert successful? 01:51:39 4 Q. In what case was the Daubert successful? 01:51:39 4 Q. In what case was the Daubert successful? 01:51:39 4 Q. In what case was the Daubert successful? 01:51:39 4 Q. In what case was the Daubert successful? 01:51:39 4 Q. In what case was the Daubert successful? 01:51:39 4 Q. In what case was the Daubert successful? 01:51:35 5 A. It was a FreddieMac securities litigation. 01:51:39 4 Q. In what case was the Daubert successful? 01:51:35 5 A. It was a FreddieMac securities litigation. 01:51:39 6 MR. MICHAELSON: Why don't we take 01:52:00 6 MR. MICHAELSON: Why don't we take 01:52:10 7 Q. Great Harman and go off the record. 01:52:20 9 We're off the record. 01:52:20 10 (Break taken) 01:52:21 11 VIDEOGRAPHER: We are back on the 02:02:3:49 12 Page 4 of your report which has the 02:03:47 13 Page 4 of your report which has the 02:03:47
as an expert witness, has the opposing 01:48:18 4 counsel moved to disqualify you under 01:48:21 5 Daubert? 01:48:26 6 A. Yes. 01:48:26 7 Q. How many times? 01:48:30 9 at least try, so it's very frequently. 01:48:32 10 Q. Okay. And have opposing counsel ever 01:48:36 11 succeeded in disqualifying you as an expert 01:48:48 12 under Daubert? 01:48:48 13 because you asked for them. 01:51:33  4 Q. In what case was the Daubert successful? 01:51:35  5 A. It was a FreddieMac securities litigation. 01:51:39  6 MR. MICHAELSON: Why don't we take 01:52: 01:52:18  9 at least try, so it's very frequently. 01:48:32 9 We're off the record. 01:52:20 10 Q. Okay. And have opposing counsel ever 01:48:36 11 villoeOGRAPHER: The time is 1:52. 01:52:18 11 villoeOGRAPHER: We are back on the 02:02:51 12 under Daubert? 01:48:48 13 BY MR. MICHAELSON: 02:03:39 13 A. Yes, once. In over 150, maybe 200 cases it 01:48:48 14 has happened exactly once. 01:48:56 15 Q. And what year was that? 01:48:56 16 A. Apparently, it was longer ago than four 01:49:26 17 years ago. I don't know how much longer 01:49:29 18 ago than four years ago it was. I say that 01:49:31 19 because I'm looking at my Exhibit 3 and 01:49:34 20 the name of the case is not there. That 01:49:38 21 can't be. Wait a minute. I guess it was 01:49:44 22 longer ago than four years ago. 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 report? 01:50:09 24 of XRP, correct? 02:04:05
4 counsel moved to disqualify you under 01:48:21 5 Daubert? 01:48:26 5 Daubert? 01:48:26 5 A. It was a FreddieMac securities litigation. 01:51:39 6 A. Yes. 01:48:26 6 MR. MICHAELSON: Why don't we take 01:52: 6 MR. MICHAELSON: Why don't we take 01:52: 16 MR. MICHAELSON: 01:52:21 MR. MICHAELSON: 01:52:21 MR. MICHAELSON: 01:52:21 MR. MICHAELSON: 01:52:21 MR. MICHAELSON: 02:03:39 MR. MICHAELSON: 02:03:39 MR. MICHAELSON: 02:03:44 MR. MICHAELSON: 02:03:44 MR. MICHAELSON: 02:03:44 MR. MICHAELSON: 02:03:47 MR. MICHAELSON: 02:03:49 MR. MICHAELSON: 02:03:44 MR. MICHAELSON: 02:03:49 MR. MICHAELSON: 02:03:44 MR. MICHAELSON: 02:03:49 MR. MICHAELSON: 02:03:44 MR. MICHAELSON: 02:03:49 MR. MICHAELSON: 02:03:49 MR. MICHAELSON: 02:03:49 MR. MICHAELSON: 02:03:44 MR. MICHAELSON: 02:03:49 MR. MICHAELSON: 02:03:44 MR. MICHAELSON: 02:03:49 MR. MICHAELSON:
5 Daubert? 01:48:26 6 A. Yes. 01:48:26 7 Q. How many times? 01:48:26 8 A. It seems to be a run-of-the-mill tactic to 01:48:30 9 at least try, so it's very frequently. 01:48:32 10 Q. Okay. And have opposing counsel ever 01:48:36 11 succeeded in disqualifying you as an expert 01:48:48 12 under Daubert? 01:48:48 13 A. Yes, once. In over 150, maybe 200 cases it 01:48:48 14 has happened exactly once. 01:48:55 15 Q. And what year was that? 01:48:56 16 A. Apparently, it was longer ago than four years ago it was. I say that 01:49:29 18 ago than four years ago it was. I say that 01:49:31 19 because I'm looking at my Exhibit 3 and 01:49:34 20 the name of the case is not there. That 01:49:38 21 can't be. Wait a minute. I guess it was 01:49:44 22 longer ago than four years ago. 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 report? 01:50:09  5 A. It was a FreddieMac securities litigation. 01:51:39 6 MR. MICHAELSON: Why don't we take 01:52: 7 a quick break and go off the record. 01:52:20 10 (Break taken) 01:52:21 11 VIDEOGRAPHER: We are back on the 02:02:3:4 11 VIDEOGRAPHER: We are back on the 02:02:3:4 12 record. The time is 2:03. 02:03:39 13 BY MR. MICHAELSON: 02:03:44 14 Q. So, Dr. Feinstein, I want to refer you to 02:03:44 15 Page 4 of your report which has the 02:03:47 16 Conclusion of your opinion at the very top. 02:03:49 17 Do you see that? 02:03:52 18 A. Okay. Yes. 02:03:52 18 A. Okay. Yes. 02:03:52 20 damages here can be computed using a common 02:03 21 can't be. Wait a minute. I guess it was 01:49:44 22 longer ago than four years ago. 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 of XRP, correct? 02:04:05
6 A. Yes. 01:48:26 7 Q. How many times? 01:48:26 8 A. It seems to be a run-of-the-mill tactic to 01:48:30 9 at least try, so it's very frequently. 01:48:32 10 Q. Okay. And have opposing counsel ever 01:48:48 11 succeeded in disqualifying you as an expert 01:48:48 12 under Daubert? 01:48:48 13 A. Yes, once. In over 150, maybe 200 cases it 01:48:55 14 La has happened exactly once. 01:48:55 15 Q. And what year was that? 01:48:55 16 A. Apparently, it was longer ago than four 01:49:26 17 years ago. I don't know how much longer 01:49:31 18 ago than four years ago it was. I say that 01:49:31 19 because I'm looking at my Exhibit 3 and 01:49:34 20 the name of the case is not there. That 01:49:38 21 can't be. Wait a minute. I guess it was 01:52:05 22 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 report? 01:50:09  6 MR. MICHAELSON: Why don't we take 01:52: 7 a quick break and go off the record. 01:52:16 8 VIDEOGRAPHER: The time is 1:52. 01:52:18 9 We're off the record. 01:52:20 (Break taken) 01:52:21 11 VIDEOGRAPHER: We are back on the 02:02:3:39 12 record. The time is 2:03. 02:03:39 13 BY MR. MICHAELSON: 02:03:34 14 Q. So, Dr. Feinstein, I want to refer you to 02:03:44 15 Page 4 of your report which has the 02:03:47 16 conclusion of your opinion at the very top. 02:03:49 17 Do you see that? 02:03:52 18 A. Okay. Yes. 02:03:52 19 damages here can be computed using a common 02:03 21 can't be. Wait a minute. I guess it was 01:49:44 22 longer ago than four years ago. 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 of XRP, correct? 02:04:05
7 Q. How many times? 01:48:26 8 A. It seems to be a run-of-the-mill tactic to 01:48:30 9 at least try, so it's very frequently. 01:48:32 10 Q. Okay. And have opposing counsel ever 01:48:36 11 succeeded in disqualifying you as an expert 01:48:47 12 under Daubert? 01:48:48 13 A. Yes, once. In over 150, maybe 200 cases it 01:48:55 14 has happened exactly once. 01:48:55 15 Q. And what year was that? 01:48:56 16 A. Apparently, it was longer ago than four 01:49:26 17 years ago. I don't know how much longer 01:49:29 18 ago than four years ago it was. I say that 01:49:31 19 because I'm looking at my Exhibit 3 and 01:49:34 20 the name of the case is not there. That 01:49:38 21 can't be. Wait a minute. I guess it was 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:09 24 report? 01:50:09  10 Q. How many times? 01:48:30 8 VIDEOGRAPHER: The time is 1:52. 01:52:18 9 We're off the record. 01:52:20 10 (Break taken) 01:52:21 11 VIDEOGRAPHER: We are back on the 02:02:3:39 12 record. The time is 2:03. 02:03:39 14 Q. So, Dr. Feinstein, I want to refer you to 02:03:44 15 Q. So, Dr. Feinstein, I want to refer you to 02:03:47 16 conclusion of your opinion at the very top. 02:03:49 17 Do you see that? 02:03:52 18 A. Okay. Yes. 02:03:52 19 damages here can be computed using a common 02:03 21 can't be. Wait a minute. I guess it was 01:49:44 22 longer ago than four years ago. 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 of XRP, correct? 02:04:05
8 A. It seems to be a run-of-the-mill tactic to 01:48:30 9 at least try, so it's very frequently. 01:48:32 10 Q. Okay. And have opposing counsel ever 01:48:36 11 succeeded in disqualifying you as an expert 01:48:47 12 under Daubert? 01:48:48 13 A. Yes, once. In over 150, maybe 200 cases it 01:48:48 14 has happened exactly once. 01:48:55 15 Q. And what year was that? 01:48:56 16 A. Apparently, it was longer ago than four 01:49:26 17 years ago. I don't know how much longer 01:49:29 18 ago than four years ago it was. I say that 01:49:31 19 because I'm looking at my Exhibit 3 and 01:49:34 20 the name of the case is not there. That 01:49:38 21 can't be. Wait a minute. I guess it was 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 report? 01:50:09  8 VIDEOGRAPHER: The time is 1:52. 01:52:18 9 We're off the record. 01:52:20 10 (Break taken) 01:52:21 11 VIDEOGRAPHER: We are back on the 02:02:51 11 VIDEOGRAPHER: We are back on the 02:02:33:49 12 record. The time is 2:03. 02:03:39 13 BY MR. MICHAELSON: 02:03:44 14 Q. So, Dr. Feinstein, I want to refer you to 02:03:47 16 conclusion of your opinion at the very top. 02:03:49 17 Do you see that? 02:03:52 18 A. Okay. Yes. 02:03:52 19 Q. And your opinion expresses the view that 02:03:52 20 damages here can be computed using a common 02:03 21 can't be. Wait a minute. I guess it was 01:49:44 22 longer ago than four years ago. 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 of XRP, correct? 02:04:05
9 at least try, so it's very frequently. 01:48:32 9 We're off the record. 01:52:20 10 Q. Okay. And have opposing counsel ever 01:48:36 10 (Break taken) 01:52:21 11 succeeded in disqualifying you as an expert 01:48:47 12 under Daubert? 01:48:48 11 VIDEOGRAPHER: We are back on the 02:02:5 13 A. Yes, once. In over 150, maybe 200 cases it 01:48:48 12 record. The time is 2:03. 02:03:39 14 has happened exactly once. 01:48:55 14 Q. So, Dr. Feinstein, I want to refer you to 02:03:44 15 Q. And what year was that? 01:48:56 15 Page 4 of your report which has the 02:03:47 16 A. Apparently, it was longer ago than four 01:49:26 16 conclusion of your opinion at the very top. 02:03:49 17 years ago. I don't know how much longer 01:49:29 17 Do you see that? 02:03:52 18 ago than four years ago it was. I say that 01:49:31 18 A. Okay. Yes. 02:03:52 19 because I'm looking at my Exhibit 3 and 01:49:34 19 Q. And your opinion expresses the view that 02:03:52 20 the name of the case is not there. That 01:49:38 20 damages here can be computed using a common 02:03 21 can't be. Wait a minute. I guess it was 01:49:44 21 methodology for all class members, right? 02:04:01 22 A. Yes. 02:04:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 of XRP, correct? 02:04:05
10 Q. Okay. And have opposing counsel ever 01:48:36 10 (Break taken) 01:52:21  11 succeeded in disqualifying you as an expert 01:48:47 11 VIDEOGRAPHER: We are back on the 02:02:51 12 under Daubert? 01:48:48 12 record. The time is 2:03. 02:03:39  13 A. Yes, once. In over 150, maybe 200 cases it 01:48:48 13 BY MR. MICHAELSON: 02:03:44 14 has happened exactly once. 01:48:55 14 Q. So, Dr. Feinstein, I want to refer you to 02:03:44 15 Q. And what year was that? 01:48:56 15 Page 4 of your report which has the 02:03:47 16 A. Apparently, it was longer ago than four 01:49:26 16 conclusion of your opinion at the very top. 02:03:49 17 years ago. I don't know how much longer 01:49:29 17 Do you see that? 02:03:52 18 ago than four years ago it was. I say that 01:49:31 18 A. Okay. Yes. 02:03:52 19 because I'm looking at my Exhibit 3 and 01:49:34 20 damages here can be computed using a common 02:03 21 can't be. Wait a minute. I guess it was 01:49:44 21 methodology for all class members, right? 02:04:01 22 longer ago than four years ago. 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 of XRP, correct? 02:04:05
succeeded in disqualifying you as an expert 01:48:47 under Daubert? 01:48:48  12 under Daubert? 01:48:48  13 A. Yes, once. In over 150, maybe 200 cases it 01:48:48  14 has happened exactly once. 01:48:55  15 Q. And what year was that? 01:48:56  16 A. Apparently, it was longer ago than four 01:49:26  17 years ago. I don't know how much longer 01:49:29  18 ago than four years ago it was. I say that 01:49:31  19 because I'm looking at my Exhibit 3 and 01:49:34  20 the name of the case is not there. That 01:49:38  21 can't be. Wait a minute. I guess it was 01:49:44  22 longer ago than four years ago. 01:50:02  23 Q. I see you're referring to Exhibit 3 of your 01:50:05  24 report? 01:50:09  11 VIDEOGRAPHER: We are back on the 02:02:52  12 record. The time is 2:03. 02:03:39  13 BY MR. MICHAELSON: 02:03:44  14 Q. So, Dr. Feinstein, I want to refer you to 02:03:44  15 Page 4 of your report which has the 02:03:47  16 conclusion of your opinion at the very top. 02:03:49  17 Do you see that? 02:03:52  18 A. Okay. Yes. 02:03:52  19 Q. And your opinion expresses the view that 02:03:52  20 damages here can be computed using a common 02:03  21 can't be. Wait a minute. I guess it was 01:49:44  22 longer ago than four years ago. 01:50:02  23 Q. I see you're referring to Exhibit 3 of your 01:50:05  24 of XRP, correct? 02:04:05
12 under Daubert? 01:48:48 13 A. Yes, once. In over 150, maybe 200 cases it 01:48:48 14 has happened exactly once. 01:48:55 15 Q. And what year was that? 01:49:26 16 A. Apparently, it was longer ago than four 01:49:26 17 years ago. I don't know how much longer 01:49:29 18 ago than four years ago it was. I say that 01:49:31 19 because I'm looking at my Exhibit 3 and 01:49:34 20 the name of the case is not there. That 01:49:38 21 can't be. Wait a minute. I guess it was 01:49:44 22 longer ago than four years ago. 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 report? 01:50:09  12 record. The time is 2:03. 02:03:39 13 BY MR. MICHAELSON: 02:03:44 14 Q. So, Dr. Feinstein, I want to refer you to 02:03:44 15 Page 4 of your report which has the 02:03:47 16 conclusion of your opinion at the very top. 02:03:49 17 Do you see that? 02:03:52 18 A. Okay. Yes. 02:03:52 29 Q. And your opinion expresses the view that 02:03:52 20 damages here can be computed using a common 02:03 21 can't be. Wait a minute. I guess it was 01:49:44 22 longer ago than four years ago. 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 of XRP, correct? 02:04:05
A. Yes, once. In over 150, maybe 200 cases it 01:48:48 13 BY MR. MICHAELSON: 02:03:44 14 has happened exactly once. 01:48:55 14 Q. So, Dr. Feinstein, I want to refer you to 02:03:44 15 Q. And what year was that? 01:48:56 15 Page 4 of your report which has the 02:03:47 16 A. Apparently, it was longer ago than four 01:49:26 16 conclusion of your opinion at the very top. 02:03:49 17 page 3 of your opinion at the very top. 02:03:49 18 ago than four years ago it was. I say that 01:49:31 18 A. Okay. Yes. 02:03:52 18 A. Okay. Yes. 02:03:52 19 because I'm looking at my Exhibit 3 and 01:49:34 19 Q. And your opinion expresses the view that 02:03:52 19 can't be. Wait a minute. I guess it was 01:49:44 21 methodology for all class members, right? 02:04:01 22 longer ago than four years ago. 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 of XRP, correct? 02:04:05
has happened exactly once.  01:48:55  Q. And what year was that?  01:48:56  A. Apparently, it was longer ago than four once of the case is not there. That once of the case is not the very top. 02:03:49  15 Page 4 of your report which has the once of your opinion at the very top. 02:03:49  16 Conclusion of your opinion at the very top. 02:03:52  18 A. Okay. Yes.  19 Q. And your opinion expresses the view that once of the case is not the very top. 02:03:52  20 damages here can be computed using a common once of your opinion expresses the view that once of the case is not the very top. 02:03:52  21 dam
15 Q. And what year was that?  16 A. Apparently, it was longer ago than four years ago. I don't know how much longer ol:49:29 lago than four years ago it was. I say that ol:49:31 lago than four years ago it was. I say that ol:49:34 lago than four years ago it was. I say that ol:49:34 lago than four years ago it was. I say that ol:49:34 lago than four years ago it was. I say that ol:49:34 lago than four years ago it was. I say that ol:49:34 lago than four years ago it was. I say that ol:49:34 lago than four years ago it was. I say that ol:49:34 lago than four years ago it was. I say that ol:49:34 lago than four years ago it was. I say that ol:49:34 lago than four years ago lago than four years ago lago than four years ago. ol:50:02 lago lago than four years ago. ol:50:02 lago lago than four years ago. ol:50:02 lago lago than four years ago. ol:50:05 lago lago lago lago lago lago lago lago
16 A. Apparently, it was longer ago than four years ago. I don't know how much longer 01:49:29 17 Do you see that? 02:03:52 18 ago than four years ago it was. I say that 01:49:31 18 A. Okay. Yes. 02:03:52 19 because I'm looking at my Exhibit 3 and 01:49:34 19 Q. And your opinion expresses the view that 02:03:52 19 can't be. Wait a minute. I guess it was 01:49:44 21 methodology for all class members, right? 02:04:01 22 longer ago than four years ago. 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 report? 01:50:09 24 of XRP, correct? 02:04:05
years ago. I don't know how much longer 01:49:29 17 Do you see that? 02:03:52 18 ago than four years ago it was. I say that 01:49:31 18 A. Okay. Yes. 02:03:52 19 because I'm looking at my Exhibit 3 and 01:49:34 20 damages here can be computed using a common 02:03 21 can't be. Wait a minute. I guess it was 01:49:44 21 methodology for all class members, right? 02:04:01 22 longer ago than four years ago. 01:50:02 22 A. Yes. 02:04:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 of XRP, correct? 02:04:05
ago than four years ago it was. I say that 01:49:31 18 A. Okay. Yes. 02:03:52 19 because I'm looking at my Exhibit 3 and 01:49:34 20 the name of the case is not there. That 01:49:38 20 damages here can be computed using a common 02:03 21 can't be. Wait a minute. I guess it was 01:49:44 21 methodology for all class members, right? 02:04:01 22 longer ago than four years ago. 01:50:02 22 A. Yes. 02:04:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 of XRP, correct? 02:04:05
because I'm looking at my Exhibit 3 and 01:49:34 the name of the case is not there. That 01:49:38 can't be. Wait a minute. I guess it was 01:49:44 longer ago than four years ago. 01:50:02 Q. I see you're referring to Exhibit 3 of your 01:50:05 Q. And your opinion expresses the view that 02:03:52 damages here can be computed using a common 02:03 1 methodology for all class members, right? 02:04:01 22 A. Yes. 02:04:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 of XRP, correct? 02:04:05
the name of the case is not there. That 01:49:38 20 damages here can be computed using a common 02:03 can't be. Wait a minute. I guess it was 01:49:44 21 methodology for all class members, right? 02:04:01 22 longer ago than four years ago. 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 report? 01:50:09 20 01:50:05 24 of XRP, correct? 02:04:05
21 can't be. Wait a minute. I guess it was 01:49:44 22 longer ago than four years ago. 01:50:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 report? 01:50:09 21 methodology for all class members, right? 02:04:01 22 A. Yes. 02:04:02 23 Q. And that class is comprised of purchasers 02:04:03 24 of XRP, correct? 02:04:05
22 longer ago than four years ago. 01:50:02 22 A. Yes. 02:04:02 23 Q. I see you're referring to Exhibit 3 of your 01:50:05 24 report? 01:50:09 22 A. Yes. 02:04:02 23 Q. And that class is comprised of purchasers 02:04:03 24 of XRP, correct? 02:04:05
23 Q. I see you're referring to Exhibit 3 of your 01:50:05 23 Q. And that class is comprised of purchasers 02:04:03 24 report? 01:50:09 24 of XRP, correct? 02:04:05
24 report? 01:50:09 24 of XRP, correct? 02:04:05
25 A. Yes. 01:50:09 25 A. The class, the proposed class is detailed 02:04:09
Page 130 Page 130
1 Q. Page 18 of the report? 01:50:10 1 in the complaint, not here. 02:04:12
2 A. Yes. 01:50:11 2 Q. What's your understanding of who the class 02:04:13
3 Q. And this is titled Testimony Provided in 01:50:11 3 members are? 02:04:16
4 the Last Four Years? 01:50:14 4 A. Purchasers and individuals who still no. 02:04:17
5 A. Right. 01:50:15 5 Can I see the complaint? I think it says 02:04:27
6 Q. Did you prepare this Exhibit 3? 01:50:15 6 purchasers who have suffered a loss and 02:04:29
7 MR. SPEAR: Objection to form. 01:50:22 7 purchasers who still hold XRP is what it 02:04:33
8 A. Yes and no. We keep a running updated 01:50:23 8 says. 02:04:36
9 version of this on the computers at the 01:50:28 9 Q. Okay. So it's comprised of purchasers? 02:04:36
10 office, so I added to it and other people 01:50:31 10 A. Right, right. 02:04:38
11 have added to it. 01:50:35 11 Q. Maybe not all purchasers, to be purchased 02:04:40
12 Q. Were you involved in a decision as to why 01:50:38 12 for gain you might be excluded, but 02:04:42
13 the testimony would be, go back only four 01:50:42 13 A. Correct. 02:04:44
14 years? 01:50:47 14 Q. But everybody who is in the putative class 02:04:45
MR. SPEAR: Objection to form. 01:50:47   15 is a purchaser? 02:04:49
16 A. I thought that was the rules of the federal 01:50:48 16 A. I'll take your word for it. 02:04:50
17 I've been told in the past that the rules 01:50:52 17 Q. You're not expressing a view in your opinion 02:04:52
for federal, expert reports in federal cases 01:50:54 18 on what constitutes a purchaser of XRP, 02:04:55
19 is that testimony over the last four years 01:50:59   19 correct? 02:04:58
20 is what's required, and that's what I always 01:51:01 20 A. Correct. 02:04:58
20 is what's required, and that's what I always 01:51:01 20 A. Correct. 02:04:58 21 provide in reports in federal cases. 01:51:04 21 Q. So that could include someone who received 02:04:5
21 provide in reports in federal cases. 01:51:04 21 Q. So that could include someone who received 02:04:5
21 provide in reports in federal cases. 01:51:04 21 Q. So that could include someone who received 02:04:5 22 Q. Is it your testimony that in understanding 01:51:08 22 XRP as a gift, but maybe not, is that 02:05:04
21 provide in reports in federal cases. 01:51:04 22 Q. Is it your testimony that in understanding 01:51:08 23 that that's what the federal rules require 01:51:18 21 Q. So that could include someone who received 02:04:5 22 XRP as a gift, but maybe not, is that 02:05:04 23 A. I can't answer that. 02:05:07

1 compensation for work?	02:05:15	1	common for all such people. 02:07:52
2 A. We just established that I'm not the or	ne 02:05:17	2	Q. So now it's your testimony that you did 02:07:54
3 who would be determining who the put	rchasers 02:05:19	3	consider in preparing this methodology 02:08:00
4 are. That's really someone else's	02:05:21	4	everybody who received it in exchange for 02:08:03
5 determination. 02:	05:30	5	some consideration? 02:08:06
6 Q. In preparing for this report, did you g	ive 02:05:30	6	MR. SPEAR: Objection, misstates 02:08:08
7 thought to the range of different types	of 02:05:33	7	his testimony. 02:08:09
8 people who might be purchasers	02:05:35	8	A. I didn't spell out a taxonomy of all the 02:08:10
9 A. Yes. 02:05	:36	9	different kinds of ways there are to acquire 02:08:14
10 Q in this class? 02:	05:36	10	it, but I did consider that if you received 02:08:17
11 A. Yes. 02:05	:37	11	it in exchange for consideration and sold 02:08:19
12 Q. And is it your view that your opinion	as 02:05:37	12	it in exchange for consideration, that 02:08:22
to the damages methodology could be	applied 02:05:40	13	there's a straightforward common way to 02:08:24
14 to any of them? 02	:05:42	14	calculate your damages if you suffered a 02:08:26
15 A. Yes. 02:05	:43	15	loss. 02:08:28
16 Q. Including those who received it as a g	rift? 02:05:43	16	Q. But with respect to, for example, someone 02:08:28
17 A. Yes. Well, yeah, I think so. I mean, I	I 02:05:47	17	who acquires it for a cup of coffee, how 02:08:32
18 don't think I considered when I was wr	iting 02:05:54	18	would your methodology apply? 02:08:39
19 the report if someone who received it a	as a 02:05:55	19	MR. SPEAR: Objection, asked and 02:08:41
20 gift first, I definitely did not spend	02:05:56	20	answered. 02:08:42
21 time thinking about whether someone	who 02:06:03	21	A. I did explain that before. You would value 02:08:44
22 received XRP as a gift would be consid	dered a 02:06:05	22	what the XRP was at the time they conveyed 02:08:47
23 purchaser. I did not think about that w	hen 02:06:09	23	it, gave it up rather, received it, and 02:08:53
24 I was writing the report, period.	02:06:16	24	what was the value of the XRP at the time 02:08:59
25 Q. I'm trying to understand. Is it your	02:06:19	25	that you disposed of it, or currently if you 02:09:02
	Page 134		Page 136
1 testimony that your report contain	s a 02:06:24	1	still have it. 02:09:05
2 methodology that can be applied t	o all 02:06:28	2	Q. Using what exchange rate? 02:09:06
		-	Q. Using what exchange rate: 02.05.00
3 purchasers, but it's not within the	scope 02:06:30	3	MR. SPEAR: Objection, asked and 02:09:09
3 purchasers, but it's not within the s 4 of your report to opine on who pu	-		
4 of your report to opine on who put	-	3	MR. SPEAR: Objection, asked and 02:09:09
4 of your report to opine on who pu	rchasers 02:06:35 02:06:39	3 4	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10
4 of your report to opine on who pu 5 are or not?	rchasers 02:06:35 02:06:39 my 02:06:43	3 4 5 6	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10 Q. This is an XRP exchange rate, not a Bitcoin 02:09:11
<ul> <li>4 of your report to opine on who put</li> <li>5 are or not?</li> <li>6 A. I think that's fair to say. It's not it</li> </ul>	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45	3 4 5 6	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10 Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16
<ul> <li>4 of your report to opine on who put</li> <li>5 are or not?</li> <li>6 A. I think that's fair to say. It's not it</li> <li>7 professional expert opinion what the</li> </ul>	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:48	3 4 5 6	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16
<ul> <li>4 of your report to opine on who put</li> <li>5 are or not?</li> <li>6 A. I think that's fair to say. It's not to professional expert opinion what to says about who would be consider.</li> </ul>	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:48 tion that 02:06:51	3 4 5 6 7 8	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10 Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16 A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18
4 of your report to opine on who put 5 are or not? 6 A. I think that's fair to say. It's not at 7 professional expert opinion what t 8 says about who would be consider 9 purchaser, but it is my expert opin	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:48 tion that 02:06:51 pmmon 02:06:55	3 4 5 6 7 8 9	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26
4 of your report to opine on who put 5 are or not? 6 A. I think that's fair to say. It's not in 7 professional expert opinion what t 8 says about who would be consider 9 purchaser, but it is my expert opin 10 whatever the law does decide, a consider of the says about who would be considered.	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:48 tion that 02:06:51 pmmon 02:06:55 Iculate the 02:06:59	3 4 5 6 7 8 9	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26 rates intraday. 02:09:30
4 of your report to opine on who put 5 are or not? 6 A. I think that's fair to say. It's not to 7 professional expert opinion what to 8 says about who would be consider 9 purchaser, but it is my expert opin 10 whatever the law does decide, a content of the says are to be applied to call	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:48 tion that 02:06:51 tommon 02:06:55 deulate the 02:06:59 . 02:07:03	3 4 5 6 7 8 9 10	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26 rates intraday. 02:09:30 Q. Would you use the rate at 4:00 p.m. or the 02:09:33
4 of your report to opine on who put 5 are or not? 6 A. I think that's fair to say. It's not to 7 professional expert opinion what to 8 says about who would be consider 9 purchaser, but it is my expert opin 10 whatever the law does decide, a consider 11 methodology can be applied to cal 12 damages for everyone in the class	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:51 ommon 02:06:55 lculate the 02:06:59 . 02:07:03 for the 02:07:10	3 4 5 6 7 8 9 10 11 12	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26 rates intraday. 02:09:30  Q. Would you use the rate at 4:00 p.m. or the 02:09:33 rate at the time of the acquisition of XRP? 02:09:38
4 of your report to opine on who put 5 are or not? 6 A. I think that's fair to say. It's not a 7 professional expert opinion what t 8 says about who would be consider 9 purchaser, but it is my expert opin 10 whatever the law does decide, a constant of the constant of th	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:51 common 02:06:55 lculate the 02:06:59 . 02:07:03 for the 02:07:10 ow the 02:07:14	3 4 5 6 7 8 9 10 11 12 13	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26 rates intraday. 02:09:30  Q. Would you use the rate at 4:00 p.m. or the 02:09:33 rate at the time of the acquisition of XRP? 02:09:38 MR. SPEAR: Objection, asked and 02:09:40
4 of your report to opine on who put 5 are or not? 6 A. I think that's fair to say. It's not 1 professional expert opinion what the says about who would be considered purchaser, but it is my expert opinion whatever the law does decide, a continuous methodology can be applied to call damages for everyone in the class Q. Is it fair to say that in preparing for the profession of the profess	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:51 common 02:06:55 lculate the 02:06:59 . 02:07:03 for the 02:07:10 ow the 02:07:14	3 4 5 6 7 8 9 10 11 12 13 14	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26 rates intraday. 02:09:30  Q. Would you use the rate at 4:00 p.m. or the 02:09:33 rate at the time of the acquisition of XRP? 02:09:38 MR. SPEAR: Objection, asked and 02:09:40 answered. Objection, scope. Go ahead. 02:09:42
of your report to opine on who pute are or not?  A. I think that's fair to say. It's not a professional expert opinion what the says about who would be considered purchaser, but it is my expert opinion whatever the law does decide, a compact of the methodology can be applied to call damages for everyone in the class Q. Is it fair to say that in preparing the report, you didn't think through he methodology might apply to all variations.	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:48 tion that 02:06:51 tommon 02:06:59 . 02:07:03 for the 02:07:10 tow the 02:07:14 tariations of 02:07:17 02:07:20	3 4 5 6 7 8 9 10 11 12 13 14 15	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26 rates intraday. 02:09:30  Q. Would you use the rate at 4:00 p.m. or the 02:09:33 rate at the time of the acquisition of XRP? 02:09:38 MR. SPEAR: Objection, asked and 02:09:40 answered. Objection, scope. Go ahead. 02:09:42 A. For my example I used 4:00 p.m. rates, but 02:09:43
4 of your report to opine on who put 5 are or not? 6 A. I think that's fair to say. It's not a 7 professional expert opinion what t 8 says about who would be consider 9 purchaser, but it is my expert opin 10 whatever the law does decide, a constant of the constant of th	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:48 tion that 02:06:51 tommon 02:06:59 . 02:07:03 for the 02:07:10 tow the 02:07:14 tariations of 02:07:17 02:07:20	3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26 rates intraday. 02:09:30  Q. Would you use the rate at 4:00 p.m. or the 02:09:33 rate at the time of the acquisition of XRP? 02:09:38 MR. SPEAR: Objection, asked and 02:09:40 answered. Objection, scope. Go ahead. 02:09:42 A. For my example I used 4:00 p.m. rates, but 02:09:43 there's a determination that one would need 02:09:46
of your report to opine on who pute are or not?  A. I think that's fair to say. It's not a professional expert opinion what the says about who would be considered purchaser, but it is my expert opin whatever the law does decide, a condition of the class damages for everyone in the class Q. Is it fair to say that in preparing for the condition of the class methodology might apply to all variable purchasers?  MR. SPEAR: Objection, might apply to the same of the condition of the class are the cla	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:51 common 02:06:55 lculate the 02:06:59 . 02:07:03 for the 02:07:10 ow the 02:07:14 ariations of 02:07:17 02:07:20 disstates 02:07:21 02:07:22	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26 rates intraday. 02:09:30  Q. Would you use the rate at 4:00 p.m. or the 02:09:33 rate at the time of the acquisition of XRP? 02:09:38 MR. SPEAR: Objection, asked and 02:09:40 answered. Objection, scope. Go ahead. 02:09:42  A. For my example I used 4:00 p.m. rates, but 02:09:43 there's a determination that one would need 02:09:46 to use an intraday rate, then you could do 02:09:48
of your report to opine on who pute are or not?  A. I think that's fair to say. It's not not are professional expert opinion what the says about who would be considered purchaser, but it is my expert opinion whatever the law does decide, a considered purchaser that it is my expert opinion whatever the law does decide, a considered purchaser that it is my expert opinion whatever the law does decide, a considered purchaser for everyone in the class are proportionally demands of the proportion of the purchasers?  MR. SPEAR: Objection, mit his testimony.	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:51 common 02:06:55 dculate the 02:06:59 . 02:07:03 for the 02:07:10 ow the 02:07:14 ariations of 02:07:17 02:07:20 disstates 02:07:21 02:07:22 dered 02:07:29	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26 rates intraday. 02:09:30  Q. Would you use the rate at 4:00 p.m. or the 02:09:33 rate at the time of the acquisition of XRP? 02:09:38 MR. SPEAR: Objection, asked and 02:09:40 answered. Objection, scope. Go ahead. 02:09:42  A. For my example I used 4:00 p.m. rates, but 02:09:43 there's a determination that one would need 02:09:46 to use an intraday rate, then you could do 02:09:48 that, you could do commonly for all class 02:09:51
of your report to opine on who pute are or not?  A. I think that's fair to say. It's not a professional expert opinion what the says about who would be considered purchaser, but it is my expert opin whatever the law does decide, a condition of the class damages for everyone in the class Q. Is it fair to say that in preparing for the class purchasers?  MR. SPEAR: Objection, mit his testimony.  Mr. SPEAR: Objection, mit his testimony.  A. No, I think I did. I think I consideration anybody who received it, received exchange for some consideration are	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:51 pmmon 02:06:55 dculate the 02:06:59 . 02:07:10 pw the 02:07:14 ariations of 02:07:17 02:07:20 disstates 02:07:21 dered 02:07:29 d XRP in 02:07:34 and either 02:07:36	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26 rates intraday. 02:09:30  Q. Would you use the rate at 4:00 p.m. or the 02:09:33 rate at the time of the acquisition of XRP? 02:09:38  MR. SPEAR: Objection, asked and 02:09:40 answered. Objection, scope. Go ahead. 02:09:42  A. For my example I used 4:00 p.m. rates, but 02:09:43 there's a determination that one would need 02:09:48 to use an intraday rate, then you could do 02:09:48 that, you could do commonly for all class 02:09:51 members. 02:09:54
4 of your report to opine on who pute are or not?  6 A. I think that's fair to say. It's not not professional expert opinion what the says about who would be considered purchaser, but it is my expert opinion whatever the law does decide, a considered damages for everyone in the class Q. Is it fair to say that in preparing the report, you didn't think through he methodology might apply to all variety purchasers?  17 MR. SPEAR: Objection, mining his testimony.  18 A. No, I think I did. I think I consideration anybody who received it, received exchange for some consideration and held that XRP or ultimately sold in the says.	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:51 pmmon 02:06:55 dculate the 02:06:59 . 02:07:10 pw the 02:07:14 ariations of 02:07:17 02:07:20 disstates 02:07:21 dered 02:07:29 d XRP in 02:07:34 and either 02:07:36	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26 rates intraday. 02:09:30  Q. Would you use the rate at 4:00 p.m. or the 02:09:33 rate at the time of the acquisition of XRP? 02:09:38 MR. SPEAR: Objection, asked and 02:09:40 answered. Objection, scope. Go ahead. 02:09:42 A. For my example I used 4:00 p.m. rates, but 02:09:43 there's a determination that one would need 02:09:46 to use an intraday rate, then you could do 02:09:48 that, you could do commonly for all class 02:09:51 members. 02:09:54 Q. Did you consider before submitting this 02:09:58
4 of your report to opine on who put are or not?  6 A. I think that's fair to say. It's not not professional expert opinion what the says about who would be considered purchaser, but it is my expert opinion whatever the law does decide, a considered purchaser to say that in preparing the says about who would be considered purchaser, but it is my expert opinion whatever the law does decide, a considered purchaser for everyone in the class Q. Is it fair to say that in preparing the report, you didn't think through how the purchasers?  MR. SPEAR: Objection, mit his testimony.  MR. SPEAR: Objection, mit his testimony.  A. No, I think I did. I think I considered anybody who received it, received exchange for some consideration and held that XRP or ultimately sold in exchange for some sort of considered.	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:45 red a 02:06:51 remmon 02:06:55 lculate the 02:07:03 for the 02:07:10 row the 02:07:14 rations of 02:07:17 02:07:20 restates 02:07:21 02:07:22 dered 02:07:29 1 XRP in 02:07:36 rem output for the output for	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26 rates intraday. 02:09:30  Q. Would you use the rate at 4:00 p.m. or the 02:09:33 rate at the time of the acquisition of XRP? 02:09:38 MR. SPEAR: Objection, asked and 02:09:40 answered. Objection, scope. Go ahead. 02:09:42  A. For my example I used 4:00 p.m. rates, but 02:09:43 there's a determination that one would need 02:09:46 to use an intraday rate, then you could do 02:09:48 that, you could do commonly for all class 02:09:51 members. 02:09:54  Q. Did you consider before submitting this 02:09:58 report how this methodology expressed in 02:10:01
of your report to opine on who pute are or not?  A. I think that's fair to say. It's not a professional expert opinion what the says about who would be considered purchaser, but it is my expert opinion whatever the law does decide, a considered damages for everyone in the class Q. Is it fair to say that in preparing for the expert opinion who would be considered at the purchasers?  MR. SPEAR: Objection, mit his testimony.  MR. SPEAR: Objection, mit his testimony.  A. No, I think I did. I think I considered anybody who received it, received exchange for some consideration and held that XRP or ultimately sold it exchange for some sort of considered it's possible to calculate their dameter.	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:51 pmmon 02:06:55 deulate the 02:06:59 . 02:07:03 for the 02:07:10 pw the 02:07:14 ariations of 02:07:17 02:07:20 destates 02:07:21 dered 02:07:29 d XRP in 02:07:34 and either 02:07:40 eration, that 02:07:44 ages in 02:07:48	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26 rates intraday. 02:09:30  Q. Would you use the rate at 4:00 p.m. or the 02:09:33 rate at the time of the acquisition of XRP? 02:09:38  MR. SPEAR: Objection, asked and 02:09:40 answered. Objection, scope. Go ahead. 02:09:42  A. For my example I used 4:00 p.m. rates, but 02:09:43 there's a determination that one would need 02:09:46 to use an intraday rate, then you could do 02:09:48 that, you could do commonly for all class 02:09:51 members. 02:09:54  Q. Did you consider before submitting this 02:09:58 report how this methodology expressed in 02:10:01 Paragraphs 19 and 20 would apply to 02:10:05
4 of your report to opine on who put are or not?  6 A. I think that's fair to say. It's not not professional expert opinion what the says about who would be considered purchaser, but it is my expert opinion whatever the law does decide, a considered purchaser to say that in preparing the says about who would be considered purchaser, but it is my expert opinion whatever the law does decide, a considered purchaser for everyone in the class Q. Is it fair to say that in preparing the report, you didn't think through how the purchasers?  MR. SPEAR: Objection, mit his testimony.  MR. SPEAR: Objection, mit his testimony.  A. No, I think I did. I think I considered anybody who received it, received exchange for some consideration and held that XRP or ultimately sold in exchange for some sort of considered.	rchasers 02:06:35 02:06:39 my 02:06:43 the law 02:06:45 red a 02:06:51 pmmon 02:06:55 deulate the 02:06:59 . 02:07:03 for the 02:07:10 pw the 02:07:14 ariations of 02:07:17 02:07:20 destates 02:07:21 dered 02:07:29 d XRP in 02:07:34 and either 02:07:40 eration, that 02:07:44 ages in 02:07:48	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. SPEAR: Objection, asked and 02:09:09 answered. 02:09:10  Q. This is an XRP exchange rate, not a Bitcoin 02:09:11 exchange rate. 02:09:16  A. Right. You can use Bloomberg has a 02:09:16 reputable, well-regarded database of exchange 02:09:18 rates, daily exchange rates, even exchange 02:09:26 rates intraday. 02:09:30  Q. Would you use the rate at 4:00 p.m. or the 02:09:33 rate at the time of the acquisition of XRP? 02:09:38  MR. SPEAR: Objection, asked and 02:09:40 answered. Objection, scope. Go ahead. 02:09:42  A. For my example I used 4:00 p.m. rates, but 02:09:43 there's a determination that one would need to use an intraday rate, then you could do 02:09:48 that, you could do commonly for all class 02:09:51 members. 02:09:54  Q. Did you consider before submitting this 02:09:58 report how this methodology expressed in 02:10:01 Paragraphs 19 and 20 would apply to 02:10:05 individuals who obtained XRP in exchange 02:10:07

1 answered. 02:10:13	1 A. Meaning that for whichever way you interpret 02:12:48
2 A. Not specifically, but generally I would 02:10:15	2 the word "consideration," the conclusion 02:12:51
3 say yes, because I did consider that is 02:10:20	3 in Paragraph 16 won't change. The formulas 02:12:53
4 a transaction and I did consider potential 02:10:25	4 in 19 and 20 might in a very straightforward 02:12:58
5 class members that would be receiving 02:10:29	5 way, but the conclusion in Paragraph 16 would 02:13:01
6 well, receiving XRP and then providing XRP 02:10:33	6 not change. 02:13:05
7 in the course of some economic transaction. 02:10:39	7 Q. Okay. And with respect to how you propose 02:13:05
8 Q. Okay. So in 19 and 20, both of them, both 02:10:43	8 to calculate the value of the consideration 02:13:11
9 formulas you start with a dollar amount paid 02:10:49	9 paid, it's your opinion that if someone 02:13:14
at time of purchase, and you're saying that 02:10:52	10 used Bitcoin, that that should be converted 02:13:22
11 applies to I'll just strike that. So is 02:10:58	to U.S. dollars using the Bloomberg rate as 02:13:24
12 it fair to say that in Paragraphs 19 02:11:04	of 4:00 p.m. on the date of the transaction? 02:13:28
13 strike that. 02:11:11	13 MR. SPEAR: Objection, misstates 02:13:29
14 In Paragraph 17 you've got the 02:11:13	14 prior testimony. 02:13:30
15 statutory formula for damages which uses 02:11:14	15 A. I explained that you could do that and 02:13:31
16 the term "consideration." You covered 02:11:18	that would be a reasonable approach, but I 02:13:36
17 consideration paid for such security with 02:11:22	17 haven't determined yet whether that's the 02:13:37
18 interest thereon. Do you see that? 02:11:24	only approach or best approach. That would 02:13:40
19 A. Paragraph 17? 02:11:27	19 certainly be a reasonable way to proceed. 02:13:42
20 Q. Yes, of your report. 02:11:27	20 Q. What if Ethereum was used to purchase XRP? 02:13:44
21 A. Yes. 02:11:30	What would you use to translate Ethereum 02:13:49
22 Q. Do you see where it says that? 02:11:30	22 into U.S. dolalrs? 02:13:49
23 A. Yes. 02:11:35	23 A. That database exists, too, database of 02:13:53
24 Q. We discussed this, you're interpreting the 02:11:36	24 Ethereum exchange rates. 02:13:58
25 term "consideration" to mean the value paid 02:11:40	25 Q. On Bloomberg? 02:13:58
Page 138	Page 140
1 for such security, correct? Not the form? 02:11:43	1 A. I believe so. 02:14:00
2 A. Well, I am expressing today, here it's 02:11:48	2 Q. What if Tether was used? 02:14:00
3 not in the report actually, it is in 02:11:53	3 A. I know that the Tether exchange rates do 02:14:08
4 the report. I am expressing that I believe 02:11:55	4 exist on Bloomberg. I looked them up. 02:14:12
5 the best way to interpret the word 02:11:57	5 Q. And what if someone used, for example, a 02:14:14
6 "consideration" and the way that's most 02:11:59	6 foreign currency like a Swiss franc and 02:14:16
7 consistent with the statute is that it means 02:12:01	7 went directly into XRP, then what would 02:14:21
8 the value of the consideration, not the 02:12:03	8 you use? 02:14:23
9 form of the consideration, and I explain 02:12:05	9 A. Using exchange rates to convert the form 02:14:24
10 that part of that comes from the fact that 02:12:07	10 of the consideration to the value of the 02:14:27
11 the very next clause is "with interest 02:12:09	11 consideration in dollars is a straightforward 02:14:29
12 thereon," which means that we should be 02:12:12	12 arithmetic exercise that would be common 02:14:33
13 translating the form to a value. But I 02:12:15	13 for all class members. 02:14:35
14 also express and this is very important. 02:12:19	14 Q. Do you have an understanding sitting here 02:14:36
15 I said it was important earlier today and 02:12:21	today of how many different types of assets 02:14:37
16 it's important now, that if there's some 02:12:23	16 can be transferred for XRP? 02:14:40
17 legal determination that the word 02:12:25	17 A. Yes. 02:14:44
18 "consideration" should be the form of the 02:12:28	
1 - Consideration should be the form of the 02.12.20	18 Q. How many? 02:14:45
19 consideration and not the value of the 02:12:30	18 Q. How many? 02:14:45  19 A. It's many. That's the nature of digital 02:14:46
19 consideration and not the value of the 02:12:30 20 consideration, then that, too, would be, 02:12:31	19 A. It's many. That's the nature of digital 02:14:46 20 assets, that that's also why there are 02:14:50
19 consideration and not the value of the 02:12:30 20 consideration, then that, too, would be, 02:12:31	19 A. It's many. That's the nature of digital 02:14:46 20 assets, that that's also why there are 02:14:50
19 consideration and not the value of the 02:12:30 20 consideration, then that, too, would be, 02:12:31 21 there would be one common methodology that 02:12:37	19 A. It's many. That's the nature of digital 02:14:46 20 assets, that that's also why there are 02:14:50 21 databases that provide matrices of exchange 02:14:54
19 consideration and not the value of the 02:12:30 20 consideration, then that, too, would be, 02:12:31 21 there would be one common methodology that 02:12:37 22 can be applied for all class members given 02:12:40	19 A. It's many. That's the nature of digital 02:14:46 20 assets, that that's also why there are 02:14:50 21 databases that provide matrices of exchange 02:14:54 22 rates. 02:15:01
19 consideration and not the value of the 02:12:30 20 consideration, then that, too, would be, 02:12:31 21 there would be one common methodology that 02:12:37 22 can be applied for all class members given 02:12:40 23 that interpretation, given that alternative 02:12:44	19 A. It's many. That's the nature of digital 02:14:46 20 assets, that that's also why there are 02:14:50 21 databases that provide matrices of exchange 02:14:54 22 rates. 02:15:01 23 Q. Do you know if, for example, Bloomberg 02:15:01
consideration and not the value of the 02:12:30 consideration, then that, too, would be, 02:12:31 there would be one common methodology that 02:12:37 can be applied for all class members given 02:12:40 that interpretation, given that alternative 02:12:44 interpretation. 02:12:46	19 A. It's many. That's the nature of digital 02:14:46 20 assets, that that's also why there are 02:14:50 21 databases that provide matrices of exchange 02:14:54 22 rates. 02:15:01 23 Q. Do you know if, for example, Bloomberg 02:15:01 24 provides an exchange rate for each of the 02:15:05

4 100		
1 XRP? 02:15:13	1 I declare under penalty of perjury that the	
2 A. I don't know for sure. I know that the 02:15:14	2 foregoing is true and correct. Subscribed at	c
3 important ones, the common ones it does. 02:15:16	3,, thisda	ay of
4 I know sometimes there's an announcement 02:15:21	4, 20	
5 that Bloomberg has taken on a new currency 02:15:23	5	
6 so that would tell me at points in time 02:15:27	6	
7 it might be omitting a particular currency, 02:15:28	7	
8 but I know that in this industry the exchange 02:15:32	8	
9 rate data exists. Bloomberg is a good 02:15:35	9	
source, but if something is missing from 02:15:40	10 WITNESS NAME	
Bloomberg, there are other sources that can 02:15:41	11	
12 be used. 02:15:44	12	
13 Q. Do you agree that where XRP is purchased 02:15:44	13	
or sold pursuant to a bilateral contract, 02:15:50	14	
that it may be necessary to see the contract 02:15:55	15	
to apply the damages formula you set forth 02:15:57	16	
17 in Paragraphs 19 and 20? 02:16:00	17	
18 MR. SPEAR: Objection, asked and 02:16:02	18	
19 answered. Objection, calls for speculation. 02:16:02	19	
20 Objection, incomplete hypothetical. Go 02:16:05	20	
• • • • • • • • • • • • • • • • • • • •	21	
22 A. I'm really not sure. I know that this is 02:16:11	22	
the kind of detail that claims administrators 02:16:14	23	
are proficient at handling. They know what 02:16:16	24	
questions to ask and how to facilitate the 02:16:20	25	Dogg 14
Page 142		Page 14
administration of claims. That's their 02:16:24	1 COMMONWEALTH OF MASSACHUSETTS) 2 SUFFOLK, SS. )	
2 job. I wasn't asked for that level of 02:16:28	2 SUFFOLK, SS. ) 3	
detail. What I was asked to what I 02:16:33	4	
4 presented in my report is a common damage 02:16:37	I, Jeanette Maracas, Registered 5 Professional Reporter and Notary Public in	
5 methodology. Some of the implementation 02:16:41	and for the Commonwealth of Massachusetts,	
6 might require the expertise of a claims 02:16:49	do hereby certify that there came before me on the 20th day of January, 2023, at 9:41	
7 administrator, but it would be following 02:16:52	7 a.m., the person hereinbefore named, who	
_	was by me duly sworn to testify to the truth  8 and nothing but the truth of his knowledge	
, ,	touching and concerning the matters in	
9 Q. When you refer to the model in your report, 02:16:55	9 controversy in this cause; that he was	
you're referring to Paragraphs 19 and 20? 02:16:58	thereupon examined upon his oath, and his  examination reduced to typewriting under my	
11 A. Well, 17 and 19 and 20 as they are or 02:17:00	direction; and that the deposition is a true	
perhaps 19 and 20 as modified based on legal 02:17:05	11 record of the testimony given by the witness. 12	
13 determinations. 02:17:09	I further certify that I am neither	
14 Q. Okay. I have no further questions. 02:17:09	13 attorney or counsel for, nor related to or employed by, any attorney or counsel employed	
MR. SPEAR: I got nothing. 02:17:22	by the parties hereto or financially	
VIDEOGRAPHER: The time is 2:17. 02:17:25	interested in the action.	
We're off the record. 02:17:27	15 16 In witness whereof, I have hereunto	
18 (Whereupon the deposition was 02:17:29	set my hand this 25th day of January, 2023.	
19 concluded at 2:17 p.m.)	17 18	
20	10	
21	20	
	20 INDIANY FUNDAMENTAL My commission expires 7/29/27	
22	21	
23	22 23	
24	24	
25 Page 1/3	25	Daga 14
Page 143		Page 14

1 ANDREW ARGUATI GOVERGO	1 DE DIDNELLADO DIO LIGITARION
1 ANDREW MICHAELSON, ESQ.	1 RE: RIPPLE LABS, INC. LITIGATION
2 AMICHAELSON@KSLAW.COM	2 JANUARY 20, 2023, STEVEN P. FEINSTEIN, JOB NO. 5655291
3 JANUARY 25, 2023	3 ERRATA SHEET
4 RE: RIPPLE LABS, INC. LITIGATION	4 PAGELINECHANGE
5 JANUARY 20, 2023, STEVEN P. FEINSTEIN, JOB NO. 5655291	5
6 The above-referenced transcript has been	6 REASON
7 completed by Veritext Legal Solutions and	7 PAGELINECHANGE
8 review of the transcript is being handled as follows:	8
9 Per CA State Code (CCP 2025.520 (a)-(e)) – Contact Veritext	9 REASON
10 to schedule a time to review the original transcript at	10 PAGELINECHANGE
11 a Veritext office.	11
12 Per CA State Code (CCP 2025.520 (a)-(e)) – Locked .PDF	12 REASON
13 Transcript - The witness should review the transcript and	13 PAGELINECHANGE
14 make any necessary corrections on the errata pages included	14
15 below, notating the page and line number of the corrections.	15 REASON
16 The witness should then sign and date the errata and penalty	16 PAGELINECHANGE
17 of perjury pages and return the completed pages to all	17
18 appearing counsel within the period of time determined at	18 REASON
19 the deposition or provided by the Code of Civil Procedure.	19 PAGELINECHANGE
20 Waiving the CA Code of Civil Procedure per Stipulation of	20
21 Counsel - Original transcript to be released for signature	21 REASON
22 as determined at the deposition.	22
23 Signature Waived – Reading & Signature was waived at the	23
24 time of the deposition.	24 WITNESS Date
25	25
Page 146	Page 148
1 Federal R&S Requested (FRCP 30(e)(1)(B)) – Locked .PDF	
2 Transcript - The witness should review the transcript and	
3 make any necessary corrections on the errata pages included	
4 below, notating the page and line number of the corrections.	
5 The witness should then sign and date the errata and penalty	
6 of perjury pages and return the completed pages to all	
7 appearing counsel within the period of time determined at	
9 _X_ Federal R&S Not Requested - Reading & Signature was not	
10 requested before the completion of the deposition.	
11	
12	
13	
14	
15	
16	
16	
17	
17 18	
17 18 19	
17 18 19 20	
17 18 19 20 21	
17 18 19 20 21 22	
17 18 19 20 21 22 23	
17 18 19 20 21 22 23 24	
17 18 19 20 21 22 23	

#### [& - 90067]

&	66:7 93:16	138:8 140:4	4
<b>&amp;</b> 1:22 2:6 4:16	140:3,5	142:17 143:10	<b>4</b> 23:15 24:18
4:18,19 5:9	<b>160</b> 74:18	143:11,12	53:15,18
146:23 147:9	<b>17</b> 75:17 83:22	144:4 146:5	132:15
0	93:11 95:7,11	148:2	<b>48</b> 21:3
	95:24 138:14	<b>200</b> 130:13	<b>4:00</b> 109:1,8,25
<b>06753</b> 1:6	138:19 143:11	<b>2008</b> 32:22	137:11,15
1	<b>18</b> 28:4 131:1	<b>2010</b> 39:5	140:12
<b>1</b> 1:1 75:21	<b>19</b> 3:8 56:14,21	<b>2013</b> 34:18	<b>4:18</b> 1:6
123:23 124:9	65:4,9 66:16	124:15	5
126:18 147:1	67:2 77:6	<b>2014</b> 35:1,8	
<b>1.1</b> 87:23 91:11	90:22 93:15	91:9	<b>5</b> 3:4 24:21
92:13 98:10	110:7 111:24	<b>2018</b> 124:15	56:3 76:1 81:12
99:9	114:21 117:11	<b>2022</b> 28:4	
<b>10</b> 1:2 3:9	118:20 120:10	<b>2023</b> 1:23 4:5	<b>50</b> 128:18,19 <b>5655291</b> 146:5
24:22,23,25	137:22 138:8	145:6,16 146:3	148:2
27:1,24 29:11	138:12 140:4	146:5 148:2	
31:22 32:11,11	142:17 143:10	<b>2025.520</b> 146:9	6
34:17 53:14	143:11,12	146:12	<b>6</b> 21:9,10,14,16
81:12	<b>1900</b> 2:3	<b>20th</b> 145:6	22:20 25:2
<b>100</b> 99:20	<b>1987</b> 34:23	<b>21</b> 100:5 101:23	<b>62</b> 3:9 28:1
<b>10036</b> 2:9	<b>1996</b> 28:17	<b>21498</b> 145:19	7
<b>10:35</b> 44:1	<b>1998</b> 31:22 <b>1:12</b> 104:3	<b>24</b> 3:10 21:4 109:21	<b>7/29/27</b> 145:20
<b>10:51</b> 44:4	<b>1:52</b> 132:8	<b>25</b> 146:3	8
<b>11/18/22</b> 3:10 <b>1185</b> 2:8	2	<b>25th</b> 145:16	<b>8</b> 123:22,23
11:43 81:5		<b>2:03</b> 132:12	<b>80</b> 129:17,18
<b>11:59</b> 81:9	<b>2</b> 32:17	<b>2:17</b> 143:16,19	9
<b>11.39</b> 81.9 <b>12</b> 75:19,21	<b>20</b> 1:23 4:5	3	
<b>12:29</b> 103:15	56:15,22 65:4,9		9 1:2 3:8 19:10
<b>148</b> 1:1	66:17 67:2	<b>3</b> 20:3 130:19	19:11,14 25:1
<b>150</b> 127:4	77:6 81:13	130:23 131:6	90 33:25 34:1
130:13	83:24 84:6	30 147:1	99:21 129:18
<b>16</b> 53:17 58:3	85:23 90:22	<b>360</b> 10:14,20	129:19
64:21 65:3	93:15 110:7	11:1	<b>90067</b> 2:4
021 00.0	111:24 137:22		

# [950 - alternatively]

<b>950</b> 127:9	acquire 59:18	118:4 119:7,22	130:18,22,22
<b>99</b> 34:2	136:9	120:3	<b>agree</b> 30:10
a	acquired 73:1	addministrator	42:11,15 62:12
<b>a.m.</b> 1:24 4:6	86:9 110:10	120:8	62:16 70:21
44:1,4 145:7	112:13,19	address 38:9	72:21 100:1
aberrant	acquires	addresses 36:3	106:19,23
116:21 120:25	136:17	38:16	109:23 122:14
122:2,5	acquisition	adjudicated	142:13
<b>ability</b> 41:13	137:12	11:8	agreement
able 21:5 36:10	act 75:20	adjudicating	55:25 107:12
76:21 77:10,16	<b>action</b> 1:6 11:2	89:1	agreements
113:11	11:6,15 12:3	adjustment	121:20
<b>above</b> 146:6	44:7 45:19	84:21	<b>ahead</b> 6:24 9:6
abreast 10:4	52:22 53:13	administration	21:13 23:25
16:25 17:24	75:15 104:6,14	143:1	29:18 38:11
43:16 126:15	105:2 109:18	administrator	71:8 82:20
absolutely	145:14	53:2 117:4	85:7 90:18
93:16	actions 1:12	119:6,12,21,25	95:21 102:5
absorbed 38:18	11:8 23:19	120:9 143:7	118:1 128:11
academic 17:5	actual 71:3	administrators	137:14 142:21
43:17	82:22,23 83:14	119:9 120:6	<b>alan</b> 12:8,19
accepted 31:17	88:7 105:25	142:23	104:17
access 21:5	actually 27:2	advance 110:24	<b>alex</b> 8:19
accommodate	44:22 60:21	advise 102:8	allegations 50:5
6:12 90:25	70:17 73:14	advising 102:7	allocation
account 17:18	122:4 126:5	<b>affect</b> 69:15	33:20
39:21 42:12	139:3	98:11 110:1	<b>allow</b> 68:17
52:4 69:25	adaptation	113:24	allows 42:7
82:22 120:20	56:16	affected 36:2	121:14
accountant	<b>add</b> 114:23	afternoon	alternative
98:14	120:16	104:1	65:21 66:1
accounting	<b>added</b> 131:10	<b>ago</b> 7:13 14:17	84:17 89:12
98:15	131:11	15:20,21,24	96:13 139:23
accounts 39:23	additional	16:19 21:3,4	alternatively
	115:4 117:3	130:16,17,18	89:3

#### [alternatives - article]

alternatives	analyze 37:15	appearance	112:19 115:25
73:7,8	115:22	127:14	117:20 118:19
altogether	andrew 2:7	appearances	135:15 136:18
68:23	4:15 5:9 146:1	2:1	137:22 142:16
american 86:11	angeles 2:4	appeared 29:18	applying 37:20
94:24	announcement	appearing	53:5 85:22
americas 2:8	37:7,12 142:4	19:22 146:18	approach
amichaelson	announcements	147:7	140:16,18,18
2:10 146:2	36:11,23	appears 43:17	appropriate
<b>amount</b> 17:21	<b>answer</b> 6:3,9	<b>apple</b> 49:19	65:24 69:13
18:19 31:18	26:4,7 29:19	applicable 1:16	94:25 95:2
57:10 76:3,13	31:6 37:23	application	97:25 98:15
78:11,12 81:22	38:3,4 54:12	35:19 36:25	107:5 114:24
82:1 85:24	59:5,8,11 71:14	53:22 97:7	115:8
108:16 110:8	74:16 91:25	107:24	appropriately
110:22 111:3	108:5 113:11	applications	80:23
111:10,10	114:7 123:20	78:19,25	approximately
114:22,25	123:21 128:20	applied 56:1	16:17 18:23
115:4 117:15	133:23,24	59:17 62:10	31:21 129:16
117:17 118:13	answered	74:15 109:17	<b>area</b> 29:20 33:4
119:14 138:9	82:19 86:22	134:13 135:2	89:22
amounts 100:6	94:2 95:21	135:11 139:22	areas 11:7,11
<b>ana</b> 2:14 4:20	102:5,22	applies 22:17	28:25 29:6
analysis 22:18	136:20 137:4	22:18 41:19	arguments 56:4
29:20 33:2	137:14 138:1	84:16 120:13	arithmetic
36:1 72:9	142:19	138:11	53:23 84:1,2
106:10,16	answers 49:25	apply 29:22,25	135:25 141:12
113:5 116:22	anybody 54:23	35:5,9,11 36:12	arizona 9:17
117:3 126:23	135:20	37:9 38:6,14,19	<b>arrive</b> 126:23
126:24 127:3	apart 41:2	38:20,23,25	arrived 63:8
129:23 130:1	apparently	41:24 54:20	64:9
<b>analyst</b> 31:9,19	130:16	55:20 58:18	arriving 124:3
analysts 33:1	appear 18:10	61:8,12 75:14	124:7 126:17
analytics 63:8	19:25	110:9 111:11	article 18:11
		111:25 112:12	35:24 36:3

# [article - believe]

37:20,25 38:12	128:6	assumption	background
63:1	assembled	96:14	42:23
articles 10:1,7	124:2	attached	<b>baked</b> 86:17
10:13,18,19,25	assess 73:12	119:25 126:14	106:7
11:4 12:10	113:13	attending 4:20	ballpark
29:13,14,17,18	assesses 37:17	attention 20:3	128:15,23
29:22,23,25	assessment	21:14 23:14	129:11
43:18 126:12	73:15 99:12	32:10 81:12	<b>based</b> 76:24
articulated	asset 37:10,11	attorney	82:6 105:17
29:25	38:21 47:13,20	145:13,13	107:17 116:16
<b>aside</b> 6:11,18	47:23 49:19,20	authored 22:23	123:15 126:24
7:19 8:2 9:9,19	51:14 61:3,25	35:8	129:25 143:12
11:21 13:8,9	79:12 109:20	available 49:1	baseline 95:16
18:2 39:12	120:3 121:18	65:8 72:19	<b>basis</b> 33:3 34:4
55:9 95:14	122:6,9 123:3	82:25 100:8	40:13 47:2
<b>asked</b> 19:24	assets 17:20	101:3 102:9,25	92:18 95:10
33:19 35:3	18:18,20,21,24	114:13 126:1	96:13 107:18
60:23 69:2	23:6 30:6,11	avenue 2:3,8	120:23 121:17
82:19 86:21	36:13,20 38:14	averaging	122:3 129:11
94:1 95:20	38:15,19 40:19	129:15	<b>batch</b> 39:6
96:3 102:4	41:9,10,10,15	awarded 31:12	bearing 48:15
111:9 119:22	41:17,18,20,23	31:13	50:2,10,13
119:24 132:3	41:25 42:2,2,4	aware 20:14,24	80:16
136:19 137:3	42:7,10,13,14	51:17	<b>beat</b> 24:17
137:13,25	43:5,13 49:16	b	<b>began</b> 13:25
142:18 143:2,3	50:23 61:7,19	<b>b</b> 3:5 147:1	beginning
<b>asking</b> 6:16 9:3	63:10 73:13	<b>babson</b> 28:15	34:22
9:4 20:22,22,23	79:14 95:18	28:18 39:9	behalf 1:15
47:9 61:17	102:1,2 125:7	<b>back</b> 13:17	<b>belief</b> 125:25
71:9 91:5,24	141:15,20,25	16:19 34:21	beliefs 99:15
93:20,21 97:9	assign 27:8	44:3,6 58:3	<b>believe</b> 7:12,21
98:17,18,19,21	assisted 9:7	68:7,8 80:8	11:18 12:13
107:22,25	associated 16:5	81:8 92:4,13	14:23,25 21:11
112:2 115:23	assume 98:20	104:2,5 131:13	22:3,10,19 25:8
115:25 122:14	115:15	132:11	26:1 27:5 42:1

# [believe - buying]

62:7 65:19	43:4,7 58:1	23:3 25:5,11,16	<b>box</b> 77:20
66:4,15 68:14	81:25 89:9	25:23 40:2	bradley 4:14
73:10 76:19	90:11	49:5	105:5
83:16 84:18	<b>bitcoin</b> 23:10	bloomberg	<b>break</b> 6:8,10
	10   10   10   10   10   10   10   10		· ·
86:12 97:13	26:3,12,14,24	63:6,7,9,14	7:14 43:22,24
99:10 109:9	49:17 57:2,8,8	64:16 67:12,13	44:2 57:25
126:20 139:4	57:10,12,14,23	67:21,23 71:6	76:7 81:1,7
141:1	62:17,24 63:22	72:16,17 73:3	103:12,17
believed 125:22	63:23 66:24	73:11 82:22	132:7,10
bell 103:9	67:10 69:21,22	103:3,5 108:20	<b>brief</b> 15:12,13
best 23:9 67:18	69:24 70:1,2,25	108:23,24	broadly 29:1
67:24 68:12	71:2,5 72:6,13	109:6 125:18	128:24 129:5
69:13 70:4,7,16	73:1 76:11,12	125:20 137:7	<b>broker</b> 100:18
72:4,13,19 90:2	77:14 82:4,12	140:11,25	brokerage 53:4
111:19 139:5	82:13,16 85:15	141:4,23 142:5	brookline
140:18	85:16 86:2,9	142:9,11	32:25
bettencourt	87:9,11,21,23	bockius 1:22	<b>budd</b> 2:12 4:4
8:19	87:23 88:11,12	<b>bond</b> 36:13	<b>bullets</b> 124:11
<b>better</b> 54:13	88:13,13,16,17	74:7	<b>bunch</b> 69:6
67:20 68:1	91:8,9,10,11,15	<b>bonds</b> 29:7	burgeoning
77:3 83:8	91:16,19,20,21	30:15,15,19	17:2
97:18 108:2	92:5,14 95:4,18	31:3 40:20	<b>bush</b> 24:17
<b>beyond</b> 24:19	97:4,6 98:10,10	41:24 74:8	<b>business</b> 10:9
68:22 123:19	99:8,9 100:21	109:22	14:24 32:17,21
125:3 126:18	100:23 101:7,9	<b>bonus</b> 111:5	33:11,13,15,22
<b>bid</b> 73:21,24,25	101:14,14,15	<b>boston</b> 1:22 4:7	34:11
74:1,4,8,24	108:8,10,17,20	9:16	<b>buy</b> 51:13
75:1 86:18,25	108:21,25	<b>bottom</b> 32:12	69:22 71:2
87:1 106:1,2,6	109:15,24	32:15 123:22	87:10,21 91:10
bilateral 51:9	125:11 137:5	124:11	91:20 99:8
51:12,18 52:5	140:10	<b>bought</b> 18:19	102:2
112:20 121:20	bitcoins 92:6	39:21 63:21	<b>buying</b> 26:20
142:14	92:13	85:11 98:9	69:20 95:5
<b>bit</b> 7:15 27:4	blockchain	99:19	100:15 115:20
42:5,19,22,24	21:20 22:3		115:21 116:6
,			

# [buys - charge]

<b>buys</b> 106:14,14	96:15 107:10	14:21 15:18,24	caused 36:7
115:16	108:6 116:24	16:3,8 18:15	<b>caveat</b> 128:20
c	calculation	19:7 20:17	<b>ccp</b> 146:9,12
<b>c</b> 4:1	51:2 52:11,22	28:4,10 32:8	centralized
ca 2:4 146:9,12	54:17 62:21	33:20 39:17	50:9
146:20	68:19 72:23	40:14 41:2,20	certain 20:19
calculate 30:16	74:6,6,12,21	44:13 46:8,11	20:20 37:6
30:18,24 31:2	80:13 101:25	46:14 47:14	53:9 84:4
42:7,9 47:1	102:6 105:4,7	48:23 50:6	90:14 108:8,10
54:20 59:25	105:21 111:22	53:13 59:12,13	108:12 115:18
65:16 66:12	calculations	62:8,12,15 74:7	certainly 26:9
67:4 76:22	94:15	75:16 80:18,18	37:2 41:6 51:4
77:11,12,21,23	california 1:4	84:14 87:4,20	72:19 96:22
78:4 85:24	86:12	91:18 92:20,21	97:17 110:16
88:6 92:25	<b>call</b> 51:19	104:12,12,24	111:17 112:8
94:6,7,23 96:4	<b>called</b> 1:15 5:2	104:24 105:6	114:12 119:5
99:2 106:15	35:15 37:25	106:17 110:21	122:23 140:19
108:15 111:9	115:3	125:22 126:14	<b>certify</b> 145:6,12
112:23 114:2	<b>calls</b> 58:14 59:3	126:22 127:7	<b>cfa</b> 31:7,8,9,12
112.23 114.2	85:17 110:3	127:23 128:4	31:20,23
116:2 117:12	113:16 114:5	128:10 130:20	<b>change</b> 36:5,7
118:16 135:11	115:11 116:19	132:4	37:12 70:19
135:24 136:14	117:24 118:23	<b>cases</b> 23:17	112:6 127:11
	122:8,18	40:19 79:19,23	140:3,6 148:4,7
140:8 <b>calculated</b> 47:2	142:19	84:12 86:24	148:10,13,16
	<b>cammer</b> 36:24	104:20 109:18	148:19
51:25 53:13 54:24 68:20	candidate	109:20 127:4	changed 15:4
86:14 96:6	31:14	130:2,13	26:23
98:2 106:11	<b>candy</b> 77:20	131:18,21	characteristics
	capture 83:13	categorically	37:3
calculating	captures 90:2	60:18	characterized
40:15,18 41:2	carefully 12:4	category 129:5	121:25
42:13 51:6	case 7:6 8:21	<b>cause</b> 74:13	charge 73:20
52:18 65:11	9:13 10:6,11	145:9	73:23 74:3
74:11 75:19	11:17 12:1,6		
81:15 83:8	,		

### [charged - common]

charged 74:9	clarification	<b>clear</b> 15:16	<b>come</b> 53:8
86:16	33:18	57:20 60:4	54:15 97:16,18
<b>charges</b> 105:14	class 25:3,6,7	64:17 86:15	129:13
chartered 31:9	25:22 26:6	clearly 79:8,18	comes 18:13
check 9:23	50:17 52:17,18	close 21:8	139:10
13:21 14:18	52:22 53:13,19	128:22	comfortable
63:6 67:12	56:10,12 60:21	<b>code</b> 146:9,12	120:6
checked 126:5	60:23 61:13	146:19,20	<b>coming</b> 128:8
<b>choice</b> 69:12	62:10,22 64:6	<b>coffee</b> 59:22	commencing
90:10,20	64:11 66:3	78:2,4,6 112:14	1:24
<b>choose</b> 30:12	68:21,22 69:5	136:17	commission
64:23,25	69:16 71:15	coinbase 16:14	73:23 75:3
<b>chooses</b> 64:8	72:11 75:8,10	16:17,23 17:10	145:20
choosing	75:15 77:2	17:18 18:3,20	commissions
102:18	81:20 84:23,24	39:21 69:24	74:9 87:5,6
<b>chosen</b> 91:19	85:13 89:9,14	74:3	106:4
circle 44:6	93:19 102:21	coingecko	commodity
circling 13:17	106:25 107:11	124:17 125:16	26:22,23
circumstances	109:18 110:1,2	126:11	<b>common</b> 50:16
31:4 71:23	110:16 111:6	coingecko.com	50:18 51:25
cite 18:12 63:1	117:12 119:16	126:6	52:16 53:19,20
95:25 96:1	120:19 132:21	coinmarket	54:1,5,21,25,25
<b>cites</b> 22:12	132:23,25,25	125:15	58:5 59:16,24
<b>civil</b> 1:6,17	133:2,14	coinmarketcap	61:12 64:5,11
146:19,20	134:10 135:12	124:16 126:11	64:22 66:2,11
<b>claim</b> 120:1	137:18 138:5	coinmarketca	69:4,16 70:20
claimant 53:1,8	139:22 141:13	126:6	71:15 72:3,10
54:9,15	classes 27:6	<b>cold</b> 40:4,5	74:14,19 77:2
claimant's	28:11	collateral 79:5	84:16,22 89:8
52:25	classwide 47:2	colleague 4:17	89:13 90:24
<b>claims</b> 53:2,7	53:20 58:5	4:19	93:18 94:11,18
117:4 119:6,9	107:23	collect 20:11	94:22 96:9,23
119:12,21,24	clause 113:2,24	24:10	97:7,10,15,16
120:5,8,9	139:11	college 9:16	97:19,22
142:23 143:1,6		28:15,19	102:20 107:11

# [common - consistent]

120:19 132:20	96:8	125:6 145:8	63:20 64:3,4,14
135:10 136:1	completed	concluded	64:15,19,24
136:13 139:21	146:7,17 147:6	143:19	65:1,5,6 66:20
141:12 142:3	completely 6:9	conclusion	66:22 67:4,6,7
143:4	completeness	53:16 58:15	68:2 69:9
commonly	127:17	59:4 64:21,22	70:11 73:16
37:17 52:16	completion	65:2 93:15	76:2,8,10,11,17
61:13 62:10,21	147:10	132:16 140:2,5	76:18,19,20
137:18	complexities	conclusions	77:7,8,13,18,20
commonwealth	120:20	126:24,25	82:3 83:9 86:1
1:20 145:1,5	complexity	conduct 33:2	87:15 88:3,4
communicati	120:16	129:23,23	90:6,7,21 91:1
6:17,19,24 9:9	comprised	confidence	93:3 94:8,9
15:9 45:15	48:22 132:23	41:13 126:10	114:20 135:21
90:12	133:9	confident	135:23 136:5
companies 37:4	computation	125:14 126:8	136:11,12
company 47:22	42:24 63:16	confirmation	138:16,17,25
47:25,25 48:18	87:3	53:4 100:17,18	139:6,8,9,18,19
48:24 96:18	computed	100:19,19	139:20 140:2,8
129:8	53:18 54:1,4	119:17	141:10,11
compared	132:20	confirmed	considerations
123:9 129:14	computers	14:14	75:14
compensation	131:9	confirming	considered 7:4
59:1,18 110:22	computing 42:3	125:21	26:5 62:7
111:2,5,16	50:17	connection	80:21,21 112:4
119:7,20,23	conceivable	17:11,15 18:14	123:24 124:2,6
120:2,4 127:18	87:8	105:1,21	126:17 134:18
134:1	concentration	consider 67:16	134:22 135:8
competing	28:25	112:6 136:3,10	135:19
65:15	concepts 37:8	137:20 138:3,4	considering
complaint 15:1	38:19	consideration	124:23 125:9
15:1,2 125:3	conceptual	52:8 55:16,22	consistent 6:22
133:1,5	60:17	56:25 57:5,6,10	50:18 68:14
complete 5:25	concerning	57:15,17,18,19	70:18 84:11
27:2 85:21	22:16,23 54:16	57:21 61:10,11	139:7

#### [constitutes - courtroom]

constitutes	142:14,15	30:4 34:5,25	85:8 90:8,9,12
133:18	contracts 51:10	37:13,22 38:2	90:13 124:20
consultant	51:12,18	39:2,24,25 45:7	130:4,10
10:10	contractual	46:9 52:12	145:13,13
consulting	52:4 116:14	53:11 54:2	146:18,21
32:24 129:17	contrary 59:12	60:8,10,11	147:7
consumers 17:8	control 40:1,5	61:21 63:24	<b>count</b> 60:19
consummate	controversy	65:11 66:4,17	80:14 94:21,22
49:12	145:9	66:25 67:3	counter 51:20
<b>contact</b> 146:9	conversion	76:14 77:9	51:22,24 121:7
contained	64:19 67:3	81:17 84:10,19	121:8,10
52:10	68:3	85:16 86:7,11	122:23 123:15
contains 21:7	convert 61:9	89:23 106:8,9	123:18
135:1	67:5 82:6	108:14 115:1	counterparty
contemplates	141:9	117:23 125:13	58:10 80:16
77:25 78:9	converted	127:10 129:21	113:3 116:14
79:8	69:21 82:12	129:22 132:24	116:17
content 10:18	91:7 93:24	133:13,19,20	<b>country</b> 85:4,5
12:14	95:3,17 140:10	139:1 144:2	86:6
contentious	converting 68:1	corrections	couple 27:7
11:7,12,15	converts 85:14	146:14,15	coupled 42:4
context 30:21	conveyance	147:3,4	42:24
57:20	112:25	correlated 61:6	<b>course</b> 10:8,9
continues 34:19	conveyed 86:4	correlates	22:6 39:9
contract 26:20	112:24 114:15	61:18,24	124:3,7 126:14
26:21 33:3	136:22	correlation	129:20 138:7
34:4 51:13	<b>copy</b> 27:24	61:2,4,14	courses 28:24
52:5,11,19	75:18	<b>cost</b> 73:2 75:5	89:19
112:20 113:1,8	corporate 29:2	106:2,4	<b>court</b> 1:3 4:23
113:10,13,20	29:3,3	<b>counsel</b> 4:11,21	5:20 6:4 55:24
113:21,23	correct 5:18	5:3 6:17,20	70:21 88:2,25
114:2,10,12,16	8:7,11 14:3	7:11 8:8,13 9:9	94:24 96:21
115:3,13,15,16	18:8 22:16,24	9:19 13:9 15:3	126:25
117:20 118:2	22:25 23:2,5	20:16,25 23:23	courtroom 5:18
118:21 121:24	25:6,12,17,18	24:4,6,11,12	

### [courts - decide]

<b>courts</b> 84:13	37:21 38:7,9,24	42:4,9 47:1,1	125:19 126:1
96:2,17	39:1,10,14,18	50:17 51:7	142:9
<b>cover</b> 43:15	40:9 41:3	52:18 53:12,18	database 68:25
coverage 11:2	<b>cup</b> 59:22 78:2	53:21 54:1,20	72:7,15,17
covered 22:7	78:3,6 112:14	54:24 58:6	73:12 102:9,24
24:6 56:5 59:6	136:17	62:21 65:11,16	137:8 140:23
81:25 138:16	curiosity 14:20	66:12 67:19	140:23
covering 10:18	curious 44:12	68:21 70:17	databases
<b>covid</b> 35:16	currencies 23:8	74:7,11,12	68:17 103:4
36:8	93:25 95:4,6	75:15,19,22	124:14 141:21
created 48:4	100:2 109:22	76:5 81:15,20	<b>date</b> 4:5 67:19
creativity 27:13	currency 86:10	86:12,13,20	70:14 89:16
credential	94:18,18 96:6	88:24 94:6,24	118:4 140:12
31:10	141:6 142:5,7	96:4,5,16	146:16 147:5
cross 3:2	currently	105:22 107:10	148:24
crowninshield	136:25	108:7 110:6	dated 28:3
8:16 32:22	customized	117:12 132:20	<b>dates</b> 37:7
39:13 129:7,14	121:9,10,13	134:13 135:12	120:22,22
crypto 16:5	122:10,12,25	135:24 136:14	daubert 130:5
18:2 34:11	123:2	138:15 142:16	130:12 132:4
35:9 36:25	<b>cutoff</b> 131:24	<b>dan</b> 8:19 104:7	<b>day</b> 39:7 109:2
39:23 40:16	<b>cv</b> 1:6	daniel 12:7	109:7,10,18,21
50:23 73:19	d	<b>data</b> 52:25 54:8	109:25 144:3
74:2 100:1	<b>d</b> 3:1 4:1	54:8,9,10,11,22	145:6,16
cryptocurren	daily 124:12	54:25 55:2,3,9	<b>dead</b> 97:14
30:11	137:9	55:10,10,11	<b>deal</b> 40:24 41:6
cryptocurrency	damage 42:23	62:9 63:9,14	41:11
17:4 21:19	52:22 66:2	67:18,20,24	<b>deals</b> 74:10
22:2 23:1 25:4	69:4,16 70:20	69:14 82:21,24	debate 50:1
25:10,15,23	74:14 84:17	101:10,11,13	decentralized
27:16,17 29:14	87:3 93:19	108:20,23,25	50:9
29:20 30:1,3,5	96:9 102:6,20	109:6,7,19	decide 59:15
30:25 31:25	143:4	114:13 124:13	67:19 89:3
34:8 35:4,20	damages 23:17	124:15,18,20	135:10
36:15,17,19	40:18 41:8,9,14	125:14,16,17	
L	1	I	

# [decided - digital]

decided 45:25	41:5 99:16	details 18:16	dictated 107:9
102:13,13	deposition 1:14	52:14 71:10	<b>differ</b> 72:24
decision 24:3	3:8 4:8 6:21	102:12,13,18	99:3
92:18 131:12	11:21 13:23	113:10,19,21	difference
decisions 29:4	14:1 15:19	114:9 117:1	106:18,20
98:23	19:3,15,23 21:9	determination	114:18 116:25
declarations	127:15 128:16	24:4,12 58:17	differences
23:16	143:18 145:10	60:19 64:1,10	30:9,10,14
declare 144:1	146:19,22,24	65:23 67:23	different 27:4
defendants	147:8,10	72:8 75:4	31:1 49:15
1:16 2:9 4:16	depreciated	76:16 77:1	60:15 63:12
5:3,10 19:15	88:14,16 92:4	88:2 89:15	66:13,21 68:11
48:16 68:18	derivatives	93:10 95:15	69:19 70:22
defense 12:23	26:18 29:7	96:5,12 97:12	71:21,22 73:7,8
19:13 44:17	30:15	97:23 98:3	73:9,11,13,17
defer 87:7	describe 6:20	107:12 110:14	73:18 74:6
defining 24:2	28:21 34:14	111:20 134:5	84:14 85:3
definitely 43:7	47:7 52:15	137:16 139:17	87:17 89:10
134:20	124:12	determinations	90:25 92:23
definition	described 37:9	76:23 143:13	93:14 94:19
27:20	97:10,22 118:7	<b>determine</b> 36:1	96:10,22 116:6
<b>degree</b> 115:19	describing	36:10 53:10	116:23 119:20
delivered	11:11 37:4	determined	120:21,22
110:19 112:9	66:10 84:22	48:15 72:14,18	124:16 127:14
demonstrated	115:14 118:6	75:7,9 100:7	134:7 136:9
41:19	120:24 121:24	107:4,8 140:17	141:15
denominated	description 3:7	146:18,22	differently
98:8	designation	147:7	93:12
depending	31:7,8,20	determining	difficult 31:15
71:23 77:16	designations	53:21 58:5	digital 17:20
88:8 91:4	32:19	134:3	18:18,20,21,23
106:24 127:11	<b>detail</b> 142:23	developments	23:6 36:13,19
depends 21:24	143:3	16:25 17:25	38:13,15,19
24:1,2 30:21	detailed 132:25	<b>deviating</b> 120:9	41:9,14,17,20
31:3 40:11			41:24 42:3,6,10

# [digital - education]

42:12,14 43:5	distinguishing	dollar 64:24	dozen 7:25
43:13 47:13,20	49:24	65:1 67:6	<b>dr</b> 4:8 5:8
47:23 49:16	district 1:3,4	81:22 82:1,3,16	81:11 132:14
50:23 61:3,7,19	divided 29:1	85:24 86:1,3	draft 8:24
61:25 63:10	dividends	92:12,16 95:16	drafted 9:5
73:13 79:11	78:18,22,24	96:4,15 99:16	drafts 9:2
95:4 121:18	80:19	99:17 101:4,8	<b>duly</b> 5:4 145:7
122:6 123:3	division 1:4	101:15 108:22	e
125:7 141:19	28:24	109:24 110:8	e 3:1,5 4:1,1
<b>direct</b> 3:2 5:6	<b>docs</b> 7:23	111:10 112:23	146:9,12 147:1
20:2 21:14	document 1:11	114:22,25	148:3,3,3
23:14 32:10	8:5 15:7 19:13	115:4 117:15	<b>earlier</b> 14:16
81:11	19:18 20:3,8,10	125:7 138:9	89:21 139:15
direction	20:14 25:1	<b>dollars</b> 57:3,22	earn 78:20 79:2
145:10	28:5 125:8	57:22 63:20,24	earned 55:21
directly 49:12	documentation	64:4,15,20	80:11 94:10
141:7	15:2 22:12	66:21 67:3,11	114:23
disclose 6:23	63:7 100:12,13	68:2,10 69:10	earnings 36:23
discuss 45:16	100:16	69:21 70:25	easy 78:7 89:11
discussed 9:2	documented	71:4 73:2	120:18
11:22 126:19	53:3	76:13 77:23,24	eclipse 38:1,12
138:24	documents 7:1	82:6,12 86:14	economic 59:8
discussing 15:8	7:2,3,7,15,17	88:20 92:19	59:9 72:9
15:10	7:19 8:1 13:5	93:23 94:7,8,9	76:24 92:1,2
discussion	19:16 20:4,11	94:11,25 95:2,3	93:20,21
45:21,23	20:19 21:22	95:9,10,13 98:8	123:16 138:7
<b>dismiss</b> 7:21,22	23:22 48:8	100:24 101:7	economics 22:8
disposed	101:24 123:24	101:12 102:3	76:24,25 93:8
136:25	124:2 125:5	108:22,25	94:12 95:23
disqualify	126:16	111:14 112:17	96:20
130:4	<b>doing</b> 47:11	125:11,12	economist 70:7
disqualifying	68:11 102:6,7	140:11 141:11	70:15 95:14,15
130:11	120:14 127:12	download 45:8	97:13 117:3
distinctive	dolalrs 140:22	downloaded	education
49:21		45:11,12,13	41:12

### [effectively - excluded]

effectively 43:1	entirely 21:6	<b>exact</b> 75:13	68:24 69:1,7,8
efficiency 38:1	85:20,20	exactly 45:20	69:12,14 70:3,4
38:13	121:22	68:23,25 89:1	70:7,8,13 71:3
efficient 38:17	entitled 36:22	130:14	71:21 73:4
<b>either</b> 57:17	<b>entity</b> 34:10	exam 26:1,2,2,5	80:2 82:7,15,15
77:3 135:21	equals 81:21	26:11,17	83:10 85:5
elaborate 24:5	equities 37:8	examination	86:4,16 100:15
else's 134:4	<b>errata</b> 146:14	5:2,6 145:10	100:18 101:6,8
emphasize	146:16 147:3,5	examined 5:4	101:9,16,16
90:23 92:8	<b>esq</b> 2:3,7,7,8,14	145:9	102:1,9,24
employed	146:1	example 18:10	105:9,11
145:13,13	essentially 7:6	18:12 26:3	108:24 109:24
employee 58:25	35:25 47:3	36:6 42:17	111:12 112:13
110:23,24	48:21 49:5	49:16 50:9	112:21 121:1
employees	96:14	52:20 55:19	122:19,20
58:23,24	established	63:21 67:10	123:13,15,17
employer	59:12 134:2	68:18 69:25	125:6 135:21
110:12	<b>estate</b> 79:6,7	73:1 74:3	135:23 136:4
encompass	estimate 128:3	76:10,12 77:13	136:11,12
60:12 61:1,24	128:21	78:2 85:3,14	137:2,5,6,8,9,9
62:4 67:23	<b>ethe</b> 82:5	100:20 101:14	137:23 140:24
encompassed	ethereum 18:25	110:11 113:2	141:3,9,21,24
117:23	19:1 23:12	136:16 137:15	142:8
encompassing	39:22 49:17	141:5,23	exchange's
89:14	66:24 67:10	examples 65:4	101:8
endeavored	140:20,21,24	65:5,14	exchanged
24:10	evaluated 93:4	<b>exams</b> 31:15	51:17,23
engage 79:5	<b>event</b> 35:16,25	excerpt 93:11	exchanges 16:6
engagement	36:4,16	95:7	16:11 39:23
45:25 46:3	events 10:18	exchange 18:2	62:6,14,18,25
47:17 127:1	36:10	34:8 53:3	73:19 74:2,18
enthusiasts	everybody	58:11 59:22	78:2 123:9
100:1	133:14 136:4	60:1 61:11	exclude 116:10
entire 68:21	evidence 54:5,6	63:13 64:16	excluded 75:10
	54:12 62:19,23	65:7,8 67:8	75:10 80:14,24

### [excluded - features]

133:12	experiences	explicated	<b>fact</b> 68:18
exclusive 83:1	106:8	71:11	96:16 139:10
exclusively	experiment	explicit 87:6	<b>factor</b> 74:21
33:4	17:22	explore 36:14	80:12 98:3
exercise 117:5	<b>expert</b> 3:9 28:2	91:3 95:11	99:11 115:7,8
120:14 141:12	33:6,7,16 39:16	96:24	factored 75:2
<b>exhibit</b> 3:8,9,9	39:17 40:14	express 53:15	86:19 113:4
7:4 19:10,11,14	44:6 90:14	58:4 62:2	factors 36:24
19:17 20:10	93:9 104:6	75:12 139:14	75:14
24:23,25 25:1	126:22 127:3	expressed	<b>facts</b> 52:14
26:9 27:1,24	128:7 129:3,20	11:19 46:14	71:13
28:1 31:22	130:3,11	50:4 52:5	<b>fair</b> 20:2 33:22
32:11,17 53:14	131:18 135:7,9	60:24 61:8,15	41:1 61:23
81:12 123:23	expertise 41:7	76:9 84:5	65:17 91:13
124:1,9 126:18	41:19 42:8	85:22 111:24	113:12,23
130:19,23	143:6	121:23 122:1	118:18 135:6
131:6	expertly 43:1	124:4,8,24	135:13 138:12
exhibits 1:2	experts 12:2,5	125:9 137:21	<b>fairly</b> 109:17
<b>exist</b> 69:12	33:1 45:18	expresses	<b>fallen</b> 88:19
120:15,17	59:14 87:7	132:19	92:12,16 99:25
121:20 141:4	88:25 96:21	expressing	<b>falls</b> 29:21
exists 62:9	expires 145:20	119:11 120:23	familiar 5:14
83:18 121:12	<b>explain</b> 35:7,22	133:17 139:2,4	19:17 94:16
125:14,17	54:13 77:19	extent 9:1	103:6 105:13
140:23 142:9	107:16 124:13	58:25 87:1	<b>far</b> 7:6 34:21
expected 86:13	126:24 136:21	120:11	97:13 123:17
experience 17:7	139:9	external 48:13	128:4,9,9
17:22 18:18	explained	73:17	<b>farrell</b> 12:8,19
32:18,21 40:18	140:15	f	46:13,16
40:22,23,25	explaining	facilitate 49:8	104:17
41:1,7,11 42:20	83:19	142:25	farrell's 46:23
42:22 72:25	explains 35:24	facilitated	favorably
experienced	36:9	122:20	107:1 110:2
59:25 91:14	explanation	facilitates 49:7	features 49:15
98:12 99:11,13	58:2	iacilitates 47.7	49:21,24 121:9

### [features - formula]

122:11,12,25	finance 9:14	46:10 47:6	57:18 58:8
123:3	17:24 22:10,16	104:7	59:1 61:9 64:2
<b>federal</b> 1:17,22	22:17,18,23	<b>fit</b> 27:20	64:25 65:6
23:18 86:11	28:23,24,24,25	<b>five</b> 12:10 14:8	66:23 67:5
131:16,18,18	29:1,3,8,12,21	14:9 129:12,16	70:11 73:5
131:21,23	29:22,24 31:17	132:2	74:24 76:18
147:1,8,9	33:5 35:6	<b>focus</b> 21:9	77:17,18 82:18
<b>fee</b> 74:1,23 75:1	51:19 89:17,25	28:22 33:3	83:5,15 84:1,3
86:17,17,19,19	91:6 98:20	36:18 68:25	84:7 85:6
87:2 105:17	financial 10:4	<b>focused</b> 39:10	87:15 88:3
106:5,6	17:1,5 18:16	39:18 47:12	95:20 100:13
<b>feel</b> 93:6	22:8 31:9,11,19	focuses 89:25	100:16,17
<b>feels</b> 93:7	32:22 33:2	98:20	104:13 120:1
<b>fees</b> 73:20 74:3	38:20 41:9,10	focusing 22:21	121:17,21
74:10,21 79:13	42:2,4 43:16	34:24 39:16	122:7 131:7,15
79:21 105:13	115:22	<b>folks</b> 8:20	133:25 139:1,9
105:21	financially	<b>follow</b> 90:14	139:13,18
feinstein 1:15	145:14	119:13	141:9
3:3,10 4:8 5:1	<b>find</b> 116:8	following	<b>formed</b> 104:22
5:8 19:16 28:3	<b>fine</b> 5:11 15:12	116:17 143:7	104:25
81:11 132:14	93:12	follows 5:5	forming 46:8
146:5 148:2	finish 6:2	34:15 146:8	<b>forms</b> 64:14
<b>fell</b> 87:18	<b>firm</b> 9:17 32:24	<b>foregoing</b> 144:2	66:13 98:7
			00.13 98.7
<b>fewer</b> 14:6,8	64:23 127:19	foreign 84:25	<b>formula</b> 51:6
<b>fewer</b> 14:6,8 <b>field</b> 17:3 22:8	64:23 127:19 127:20 129:24		
/		foreign 84:25	formula 51:6
<b>field</b> 17:3 22:8	127:20 129:24	<b>foreign</b> 84:25 85:4,5 86:6,9	<b>formula</b> 51:6 53:6,10 54:21
<b>field</b> 17:3 22:8 29:3,8,12	127:20 129:24 <b>first</b> 5:4,16	<b>foreign</b> 84:25 85:4,5 86:6,9 141:6	<b>formula</b> 51:6 53:6,10 54:21 55:18 56:3,4,15
<b>field</b> 17:3 22:8 29:3,8,12 <b>fifo</b> 106:16,21	127:20 129:24 <b>first</b> 5:4,16 16:23 17:9	foreign 84:25 85:4,5 86:6,9 141:6 foreigner 85:3	formula 51:6 53:6,10 54:21 55:18 56:3,4,15 56:16 57:15
<b>field</b> 17:3 22:8 29:3,8,12 <b>fifo</b> 106:16,21 106:25 107:6	127:20 129:24 <b>first</b> 5:4,16 16:23 17:9 19:14 27:25	foreign 84:25 85:4,5 86:6,9 141:6 foreigner 85:3 forensic 33:5	formula 51:6 53:6,10 54:21 55:18 56:3,4,15 56:16 57:15 61:8 65:21,23
<b>field</b> 17:3 22:8 29:3,8,12 <b>fifo</b> 106:16,21 106:25 107:6 107:14,23	127:20 129:24 <b>first</b> 5:4,16 16:23 17:9 19:14 27:25 35:14,15 60:17	foreign 84:25 85:4,5 86:6,9 141:6 foreigner 85:3 forensic 33:5 fork 102:16,18	formula 51:6 53:6,10 54:21 55:18 56:3,4,15 56:16 57:15 61:8 65:21,23 66:1,9,19 81:19
<b>field</b> 17:3 22:8 29:3,8,12 <b>fifo</b> 106:16,21 106:25 107:6 107:14,23 108:1	127:20 129:24  first 5:4,16 16:23 17:9 19:14 27:25 35:14,15 60:17 63:25 70:23	foreign 84:25 85:4,5 86:6,9 141:6 foreigner 85:3 forensic 33:5 fork 102:16,18 102:19	formula 51:6 53:6,10 54:21 55:18 56:3,4,15 56:16 57:15 61:8 65:21,23 66:1,9,19 81:19 83:24 84:2,5,20
field 17:3 22:8 29:3,8,12 fifo 106:16,21 106:25 107:6 107:14,23 108:1 filed 12:2 15:12	127:20 129:24  first 5:4,16 16:23 17:9 19:14 27:25 35:14,15 60:17 63:25 70:23 78:8 95:25	foreign 84:25 85:4,5 86:6,9 141:6 foreigner 85:3 forensic 33:5 fork 102:16,18 102:19 form 35:12	formula 51:6 53:6,10 54:21 55:18 56:3,4,15 56:16 57:15 61:8 65:21,23 66:1,9,19 81:19 83:24 84:2,5,20 84:23 93:13
field 17:3 22:8 29:3,8,12 fifo 106:16,21 106:25 107:6 107:14,23 108:1 filed 12:2 15:12 filing 13:24	127:20 129:24  first 5:4,16 16:23 17:9 19:14 27:25 35:14,15 60:17 63:25 70:23 78:8 95:25 110:8,13 112:5	foreign 84:25 85:4,5 86:6,9 141:6 foreigner 85:3 forensic 33:5 fork 102:16,18 102:19 form 35:12 40:10,17 41:4	formula 51:6 53:6,10 54:21 55:18 56:3,4,15 56:16 57:15 61:8 65:21,23 66:1,9,19 81:19 83:24 84:2,5,20 84:23 93:13 96:15 114:21
field 17:3 22:8 29:3,8,12 fifo 106:16,21 106:25 107:6 107:14,23 108:1 filed 12:2 15:12 filing 13:24 14:16	127:20 129:24  first 5:4,16 16:23 17:9 19:14 27:25 35:14,15 60:17 63:25 70:23 78:8 95:25 110:8,13 112:5 112:7 134:20	foreign 84:25 85:4,5 86:6,9 141:6 foreigner 85:3 forensic 33:5 fork 102:16,18 102:19 form 35:12 40:10,17 41:4 43:14 51:11	formula 51:6 53:6,10 54:21 55:18 56:3,4,15 56:16 57:15 61:8 65:21,23 66:1,9,19 81:19 83:24 84:2,5,20 84:23 93:13 96:15 114:21 117:11 119:13

# [formulas - guys]

formulas 53:23	friday 1:23	35:6 73:25	goes 107:24
54:25 62:8,9	<b>front</b> 27:23	138:2	going 6:14 7:14
65:10,14,15,19	<b>full</b> 45:2	getting 45:10	16:19 20:21
65:25 66:5,5,16	<b>fully</b> 21:7	45:14 102:1	43:20 47:10
77:5 80:22,23	fungible 121:3	112:11 123:1	54:24 58:3
89:10,11 90:15	further 67:16	<b>gift</b> 58:12,19	76:6 77:21
90:21 93:14	112:7 123:5	133:22 134:16	83:2 97:1
138:9 140:3	143:14 145:12	134:20,22	123:14
<b>forth</b> 54:16	<b>future</b> 26:20	<b>gifted</b> 48:17	<b>good</b> 5:8 32:14
64:18 81:14	futures 26:25	<b>give</b> 5:24 24:13	59:21 60:2
118:19 142:16	27:15	27:25 59:11	67:13 78:3
forward 26:21	g	73:15 79:4	79:7 103:5
53:8 65:10	<b>g</b> 4:1	129:11 134:6	112:14 142:9
forwards 26:25	gain 59:25	<b>given</b> 36:6 42:1	<b>google</b> 49:20
27:15	63:16 72:24	62:6,7,13,17	googled 18:13
<b>found</b> 21:12	74:21 80:13	84:17 97:25	graduate 94:13
founded 32:24	83:14 90:3	118:4 139:22	gratuitous 88:1
<b>four</b> 19:17 39:5	91:14 98:2,4,6	139:23 145:11	<b>great</b> 40:24
109:11 130:16	98:11,13 99:2	<b>gives</b> 41:13	41:6,11
130:18,22	99:11,13,16	42:7	greater 123:17
131:4,13,19,24	105:6 106:15	<b>go</b> 5:12,13,14	<b>ground</b> 74:11
132:1	113:6,15,25	6:24 9:6 21:13	groundrules
<b>franc</b> 141:6	114:3 115:9	23:25 29:18	5:12
<b>francs</b> 85:15	133:12	34:21 38:11	grounds 108:5
95:13 97:2,3	<b>gained</b> 97:3,5	71:7 81:3	guardado 2:14
<b>frcp</b> 147:1	geared 37:7	82:19 85:7	4:21
freddiemac	gemini 18:12	90:18 95:21	guess 21:9
132:5	18:13	97:4,13 101:2	33:18 46:24
frequency 37:5	general 10:5,9	102:5 118:1	48:10 54:14
121:19	11:24 22:8	128:11 131:13	57:17 128:14
frequent	37:14 38:23	132:7 137:14	128:18 130:21
122:12	41:22 71:6	142:20	guidance 55:24
frequently	82:15	godfrey 2:2	<b>guys</b> 39:6
130:9	generally 6:11	4:14	
	29:22,24 31:16		

# [h - indicated]

h	<b>high</b> 46:23 47:7	hypotheticals	important
<b>h</b> 3:5 148:3	129:18	114:9,11	42:11 56:20
half 7:25	<b>higher</b> 88:17	116:22 120:15	83:12 92:8
hand 145:16	<b>hold</b> 87:10,22	120:17	139:14,15,16
handed 19:13	91:10 133:7	i	142:3
<b>handle</b> 119:13	<b>holder</b> 80:11	idea 121:1	importing
121:14	holding 69:25	123:11	95:10
<b>handled</b> 146:8	78:15 79:3,25	identical 83:2	impression
handling	92:11,15,17	identification	112:6,7
142:24	99:23	19:12 24:24	include 55:23
hands 51:18	holdings 69:24	60:13	69:8 85:9,13
happen 87:14	<b>holds</b> 64:23	identified 90:16	106:3 118:13
92:10	65:3	90:17	133:21,24
happened	honest 21:2	identifies 28:2	included 75:5,7
109:4 130:14	<b>hour</b> 43:21	identify 60:23	75:8 87:3
hard 11:5,23	127:6,9	identifying	106:1,2,5
73:10 78:4	<b>hourly</b> 127:24	60:21	146:14 147:3
heading 34:15	128:1	idiosyncracies	includes 84:25
hear 58:1 65:13	hours 21:3,4	36:19 42:6,12	114:16
71:20 111:7	109:21 127:21	42:20,25 43:5	including 7:4
hearing 54:14	127:22 128:3	43:13 49:21,23	7:17 134:16
heimer 9:12	128:18,19	50:22	income 76:4
held 92:10	<b>house</b> 4:21	<b>imagine</b> 69:19	78:12,14,20
135:22	hypothetical	69:23 114:8,10	79:2,22,24
help 5:13 8:22	70:23 71:9,11	immediately	114:23 128:24
37:15 129:24	71:12,18 73:9	71:2	129:2,6,13
helpful 45:24	85:19 88:6,22	<b>impact</b> 51:2,4,6	incomplete
46:2 58:1 65:9	92:9 99:24	69:14 106:23	113:9 114:4
hereinbefore	101:21 110:15	121:19	115:10 116:18
145:7	113:9 114:5	impacted 36:11	117:25 118:22
<b>hereto</b> 145:14	115:11 116:19	107:1	142:20
hereunto	118:1,23	implementati	incorporated
145:16	120:24 142:20	102:11,18	106:3
hesitation 26:1	hypothetically	143:5	indicated 7:16
	88:8		108:19

# [indication - joined]

indication	instructs 90:14	interprets	98:23
44:16	interact 19:5	21:24	involve 66:20
indicators 37:3	49:11	interrogatory	68:1 108:10
individual	interest 36:5	7:8 42:18	involved 12:7
72:23 83:7	55:21,22,23	55:20	47:25 75:16
individuals	56:1 57:16	interval 87:19	79:20 86:25
58:18 133:4	76:3,22 77:11	intraday	88:9 92:21
137:23	77:12,21,23,24	137:10,17	104:21 108:8
industry 29:2	78:5,17,22 79:9	<b>intro</b> 46:17	108:12 131:12
142:8	79:10,15,17	introduce 4:11	involves 53:22
influence 46:10	80:2,4,11,15,15	introduction	64:18
46:13	80:19 92:24,25	44:25	involving 23:17
information	94:10 114:23	invented 48:9	109:15 122:6
24:16 36:2	114:24 117:16	48:23	irrespective
38:18 52:10,16	125:16 138:18	inventors 48:17	86:5,8
54:16 55:13	139:11	48:21,23	issue 11:14,15
56:6,19 123:24	interested	<b>invest</b> 30:12	11:17 80:17,18
125:6,8 126:7	44:19,22,24	invested 30:6	<b>issued</b> 31:23
126:16	145:14	investigate	46:11 104:14
informative	internal 48:13	27:14	105:1 129:21
37:18	interpret 26:8	investment	<b>issuer</b> 78:23
initially 88:17	90:5 139:5	29:5,5 30:17,18	79:24
<b>input</b> 110:8	140:1	30:24 79:6,7	$\mathbf{j}$
<b>inputs</b> 53:9	interpretation	89:19,21 90:1	january 1:23
117:15	84:8,10,11,15	91:6 98:20,23	4:5 145:6,16
instances	84:18 88:22	investments	146:3,5 148:2
106:19 108:17	89:12 91:1	29:1,2 31:2	jared 2:8 4:19
institute 31:12	93:2 139:23,24	93:25	jeanette 1:18
31:23	interpreted	investor 17:23	4:24 145:4
instructed 90:5	21:25 26:10	88:15 91:4,7,18	<b>job</b> 39:14 94:5
90:8,9 96:20	77:17 79:23	99:3,8,10	120:5 128:25
instructing	93:12	118:25	143:2 146:5
108:4	interpreting	investors 17:8	148:2
instruction	41:5 138:24	30:12 49:11	<b>joined</b> 4:17
96:8		85:9 96:10	Joined 1.17

# [joining - litigation]

joining 4:22	109:13 110:5	135:7,10	lending 79:13
journal 10:16	110:13 111:4	lawyer 24:1	79:20
10:21	113:7,8,10,12	54:7 59:7	<b>lent</b> 79:25
<b>jury</b> 70:12 89:5	113:18,19,20	lax 2:8 4:19	80:12
k	113:22 114:8	<b>lay</b> 50:19	level 46:23 47:8
<b>keep</b> 10:4 17:24	117:8 121:6	101:23	143:2
43:16 131:8	122:19 123:5,7	<b>lead</b> 2:4 4:14	lewis 1:22 4:7
keeping 16:25	128:12 130:17	105:5	liability 50:19
126:15	141:3,23 142:2	<b>leaps</b> 84:4	<b>lifo</b> 106:16,21
kept 48:24	142:2,4,8,22,24	<b>leave</b> 71:19	106:25 107:6
key 26:4,13	knowing	leaving 66:22	107:13,23
kind 12:21	125:17	lecture 25:13	108:1
25:21 71:16	knowledge	25:14	likely 6:9
84:21 119:8	11:24 40:8,12	<b>ledger</b> 19:2,6	<b>line</b> 93:8 96:19
125:17 142:23	41:12,16 42:5	49:2,8,12,13	146:15 147:4
<b>kinds</b> 136:9	42:25 43:4,12	50:8 121:2	148:4,7,10,13
king 2:6 4:16	73:19 145:8	123:9,12,14,17	148:16,19
4:18,19 5:9	known 52:21	<b>left</b> 70:11 71:14	<b>linked</b> 12:10
know 6:8 10:14	krogman 36:24	72:10 77:18	<b>links</b> 13:4
10:16 14:22	kslaw.com 2:10	<b>legal</b> 4:4 48:11	<b>list</b> 7:24 27:10
15:6 32:1 42:1	2:10 146:2	54:6,12 58:15	29:13,17 34:14
43:22 46:22	1	58:17 59:4,14	34:16,19 37:16
47:15 49:23	labs 1:8 2:14	70:10 72:8	124:21
51:8 52:23	4:9 146:4	76:16,23 77:1	<b>listed</b> 7:1,3,23
55:8 56:9,17,20	148:1	86:23 87:7	8:2 10:2 35:1
56:25 57:4	<b>laid</b> 120:10	88:25 89:14	126:18
58:16 59:10	language 68:15	91:24,25 93:9	listing 13:4
67:20 69:11	70:18 84:5	93:10,21 95:15	lists 29:17
73:21,25 74:2	large 48:18	95:22 96:12,21	32:17,21
74:17 79:11,19	63:4	97:11,12,23	literature 43:16
84:24 87:4	law 10:14,20	107:12 110:14	62:20,23
98:14 102:12	11:1 59:7,12,12	112:3 139:17	litigation 1:8
102:23 104:7	59:13 70:21	143:12 146:7	4:10 17:11,15
104:17,19	87:4,5 93:9	<b>lend</b> 79:14	33:8,23 35:16
105:9 109:3,6	96:2,19 98:18		52:23 132:5

### [litigation - meaning]

146:4 148:1	loss 30:16,18	76:16 77:1	markets 17:1
little 7:14 27:4	30:24 31:2	111:20 115:18	126:15
40:23 42:5,19	40:15 41:3,8	magnitude	massachusetts
42:22,24 43:4,6	42:13 51:3,5,7	115:18	1:21,23 4:7
43:21 58:1	51:25 53:11	maintained	32:25 145:1,5
73:2 81:25	56:11 59:25	66:8	mastering
89:9 90:11	63:16 68:9	majority	31:16
93:6	72:24 74:22	119:16	materially
living 85:3	80:13 83:14	<b>make</b> 5:13 15:7	73:11
<b>llp</b> 2:2,6	87:12,25 88:7,9	15:16 25:2	mathematical
located 32:25	90:3 91:17,23	74:5 76:23	84:20 93:14
86:6	92:7 98:2,4,6	82:13 88:9	matrices
<b>locked</b> 146:12	98:13 99:2,13	106:18,20	141:21
147:1	99:16,22 105:6	113:2 114:18	<b>matter</b> 4:9 6:18
locking 118:8	106:15 113:4,6	146:14 147:3	44:20 49:25
<b>long</b> 14:4 28:16	113:15 114:3	makes 94:7	50:23 53:5
longer 76:6	115:9,17,18	making 24:8	101:9
130:16,17,22	116:13,15	64:10 98:23	<b>matters</b> 97:2,5
look 12:1 27:25	117:1 133:6	<b>manage</b> 129:24	114:9 145:8
44:11 71:13	136:15	managerial	<b>mckew</b> 8:19
95:1,24 98:17	losses 41:14	29:4	<b>mean</b> 11:6
111:14 112:15	42:9	<b>manner</b> 121:3	21:25 30:8
118:20 120:14	<b>lost</b> 97:3,6	maracas 1:18	35:11 38:4
124:21,22,25	<b>lot</b> 17:3 40:22	4:24 145:4	40:11 46:24
125:7	40:25 49:4	mark 8:19 19:9	51:12 54:8
looked 7:8	94:18	24:22 131:25	56:8,9 57:1,17
12:15 14:15	<b>lower</b> 121:12	marked 19:11	58:7 61:4
125:20 141:4	lroniger 2:10	19:13 24:23	74:17 77:17,19
looking 14:12	luke 2:7 4:17	market 38:1,13	84:25 86:24
44:15 47:4	<b>lunch</b> 103:13	38:16 62:20	94:11 100:11
95:6 101:11	m	79:12 82:15	106:6 125:11
130:19	made 18:24	83:9,10,10	128:7 134:17
los 2:4	21:8 22:15	110:20 118:11	138:25
<b>lose</b> 113:25		marketplaces	meaning 38:17
	24:4,12 48:25 51:3 63:2	121:14	54:7 140:1

### [meanings - moment]

	I		
meanings 94:19	93:19 102:21	71:15 72:4,5,10	<b>mind</b> 53:7
<b>means</b> 61:14	106:25 107:11	72:13,22 74:14	72:16
76:18,20 78:22	110:1,2 117:12	74:19 75:18,22	<b>minimum</b> 43:6
139:7,12	119:16 120:19	77:2 81:15	43:8 125:25
meant 22:20	132:21 133:3	84:17 85:22	minority
30:2 79:21	137:19 138:5	89:7,8,13 90:25	119:19
91:2	139:22 141:13	93:19 96:9,23	<b>minute</b> 109:7
measure 88:23	mentally	96:24,25 97:8	130:21
112:8 119:14	115:13	97:11 102:21	minutes 14:5
measuring	mention 22:5	106:24 107:4,5	<b>missing</b> 142:10
94:21,23	22:24 23:1,3,6	107:9,10,22	misstates 71:25
114:19	25:4,9,14,22	109:17 110:10	135:17 136:6
mechanics	28:10 30:3	111:17,19,20	140:13
107:21	35:4 38:13	111:23 112:12	<b>model</b> 30:16,17
media 9:23	mentioned 8:3	115:25 116:23	30:23 67:1,25
13:17,18	26:12 31:7	117:23 118:19	68:1,6 83:13,17
mediation 7:5	39:20 42:19	132:21 134:13	83:18 87:8,24
7:18,19 15:14	44:8 54:11	135:2,11,15	88:1 97:15,16
meeting 7:12	56:6 70:24	136:3,18	97:18,22,24
8:10	105:4	137:21 139:21	99:1 143:8,9
meetings 8:8	mentions 22:1	143:5	modeled 118:9
<b>member</b> 52:17	26:13	<b>metric</b> 83:10,11	models 31:1
110:16 111:6	<b>met</b> 7:10	michaelson 2:7	110:6
member's	<b>method</b> 50:16	3:4 4:15,15 5:7	modification
52:18	50:18,20 66:21	5:9 9:3 19:9	93:18
members 8:16	66:22 108:1,2	20:23 24:20,22	modified
50:17 53:19	methodology	39:8 43:23	143:12
56:10,12 60:22	36:12 52:1,3	44:5 81:3,10	modify 66:8
60:24 61:13	53:10,19,20	90:13 101:22	89:11 120:18
62:11,22 64:6	54:2 58:5,18	103:12 104:4	modifying
66:3 68:21	59:16,24 61:13	107:15 128:9	93:13
69:5,17 71:15	63:8,17,23 64:5	132:6,13 146:1	moment 22:22
72:11 75:8,11	64:9,13,17,22	midterm 26:2	25:20 27:25
77:2 81:20	66:2,11,13 69:4	<b>mill</b> 130:8	96:25
84:23 89:9,14	69:16 70:20		

# [money - objection]

116 12	•1	10 1 4 6	
money 116:13	necessarily	news 10:1,4,6	0
118:4 127:20	83:7 88:19	10:15	<b>o</b> 4:1
months 110:23	91:15 99:5	nicholas 2:3	o'clock 109:11
morgan 1:21	101:17	<b>nick</b> 4:13	oakland 1:4
4:7	necessary 43:7	northern 1:4	oath 5:17 145:9
morning 5:8	43:8 142:15	notary 1:19	<b>object</b> 29:16
8:4 43:15	146:14 147:3	145:5,20	38:10
<b>motion</b> 7:21,22	<b>need</b> 6:8 33:18	notating 146:15	objected 20:19
15:12,13	42:9 43:1 52:3	147:4	107:17
<b>mouth</b> 126:4	52:9,10,21,23	<b>note</b> 20:19 39:3	objecting 108:5
<b>move</b> 36:21	54:15,22 55:2,2	<b>notes</b> 21:17	objection 9:1
37:24	55:7,24 56:6,9	25:3,3,6,7,7,20	20:18 21:1,10
<b>moved</b> 9:16	56:17,24 57:3	25:21,21,22	23:24 30:7,13
130:4	63:22 64:2,15	26:6,15 27:21	30:20 31:5
movement	65:7 69:2,11	notice 3:8	35:12,23 37:1
37:21 61:14,16	94:22 97:20	19:15,23 56:14	40:10,17 41:4
movements	102:12,15	notion 77:7	43:14 47:19
61:6	111:21 113:12	notwithstandi	49:3,9,18 50:14
<b>moving</b> 24:25	113:19,20	63:11	51:11 52:13
27:1 34:13	114:1 118:20	november 28:4	58:8,14 59:3
37:6	137:16	nspear 2:5	65:18 70:6
<b>multiple</b> 106:14	needed 53:9	<b>number</b> 16:20	71:7,25 73:5,6
106:14 120:22	54:9 55:9	16:21 17:13	77:15 82:18,19
mutually 83:1	63:19	123:18 146:15	83:4,5,15 84:7
n	<b>needs</b> 48:15	147:4	85:6,17 86:21
<b>n</b> 1:18 2:3,7 3:1	76:16	numbers 32:12	94:1 95:19,20
4:1	neighborhood	32:14,15 88:8	95:20 102:4
name 5:8	128:18	numerare	107:7,16,19
130:20 144:10	neither 145:12	94:11,17,20,20	108:4 110:3
named 145:7	net 98:5	94:25 95:2	113:16 114:4,5
names 8:18	<b>never</b> 39:22	96:11	115:6,10,11
12:9 18:10	81:21	numerares	116:18,19
45:17,18	new 2:9 109:2	94:14	117:24,25
nature 21:1	142:5	<b>ny</b> 2:9	118:22 121:21
26:17 141:19			122:7,8,17,18
20.1/141.17			122.1,0,11,10

# [objection - own]

	I	I	
128:5 131:7,15	17:13 18:9	<b>opine</b> 48:12	opposing 130:3
135:17 136:6	19:2 20:5	53:17 69:2,2	130:10
136:19 137:3	22:21 24:9,14	98:17,18 135:4	<b>option</b> 67:16
137:13,14,25	24:20 30:5	opined 68:3	114:18 115:21
140:13 142:18	32:16,21 34:24	opining 53:25	116:3,7 117:6,8
142:19,20	38:5,22 43:9	53:25 54:4	118:5,6,7,10,14
objections	46:6 56:24	60:9 97:21	119:4 121:25
23:25	57:25 61:1,17	opinion 11:19	options 27:15
observation	66:18 78:10	40:14 44:20,21	116:11
63:2	86:15 90:20	46:8,14,23 47:7	<b>order</b> 7:21,22
<b>obtain</b> 31:20	91:3,5,12	48:16 50:1,4,13	54:17 67:4
obtained 42:6	102:10 103:11	50:15 58:4	69:3 77:23
58:19 60:1	103:14 105:4	59:17 60:5,6,12	92:9,13,25
71:4 78:5	106:10 108:6	61:1,20,23 62:2	94:23 113:13
124:18,20	123:25 125:5	62:4 64:18	114:2 118:18
137:23	128:11 129:10	66:7 67:17,22	orders 24:7
obviously 95:1	129:20 130:10	69:3,8,15,17	organization
occasion 39:22	132:18 133:9	70:10,16,19	33:6
occur 123:8	138:8 139:25	76:25 80:21,23	original 77:18
<b>odd</b> 122:24	140:7 143:14	90:2,24 93:15	146:10,21
123:2	<b>old</b> 26:19	93:20,21 97:17	originally 92:6
<b>odl</b> 103:6,7,9	omitting 142:7	99:5 104:13,16	92:14
103:10	<b>once</b> 113:7	119:11 124:23	<b>ought</b> 66:6
<b>offer</b> 39:9	130:13,14	132:16,19	outcome 73:8
76:24 129:25	one's 41:5	133:17 134:12	outlines 25:13
<b>offered</b> 101:16	ones 34:24	135:7,9 140:9	25:14
offering 69:17	66:17 142:3,3	opinions 9:8	outside 28:18
71:12	online 45:6	12:24 23:15	79:16,17 108:2
<b>office</b> 131:10	124:18	45:22 50:2,11	overall 104:22
146:11	<b>open</b> 12:25	76:24 107:25	overrides 72:9
<b>offices</b> 1:21 4:6	13:1	108:3 124:3,7	own 18:21
<b>offs</b> 119:19	<b>opened</b> 12:13	125:9 129:25	39:20 40:1,4
<b>offset</b> 116:15	12:15 44:8,14	opportunity	56:13,14,18
<b>okay</b> 6:2,6,13	opening 46:20	55:22 71:16	83:7 129:8
7:14 8:2,8			

# [ownership - perform]

ownership 49:6	77:7,8 78:23	85:23 93:11,16	paste 75:18
owns 51:3 76:6	79:24 80:19	95:7 100:5	paused 25:20
р	81:22 82:1,3	101:23 114:21	<b>pay</b> 55:4,5
<b>p</b> 1:14 3:3,10	83:9 85:24	117:11 118:20	58:10 78:17,23
4:1 5:1 19:15	86:1 87:16	120:10 138:14	79:12,14,18
28:3 146:5	88:13,16 90:7	138:19 140:3,5	111:5
148:2	90:21 91:17,22	paragraphs	paying 116:9
<b>p.m.</b> 104:3	92:4,6,15 94:8	56:21 65:4,9	116:11 127:24
109:1,8 110:1	99:17,20 100:6	66:16 67:2	payment 58:11
137:11,15	100:12,13,14	77:6 90:22	80:16 110:11
140:12 143:19	100:21 101:12	110:7 111:24	115:9 116:16
page 3:7 19:14	101:15 108:16	137:22 138:12	117:21 120:21
19:17 20:3	108:20 110:8	142:17 143:10	payments 80:2
28:1,1 29:11	110:18 111:10	paramount	80:5
31:22 32:10,12	112:4,11	64:12	<b>pays</b> 79:10
32:13,14,15	114:20,22	<b>part</b> 17:1 60:5	<b>pdf</b> 146:12
34:13,17,19	115:24 116:2,3	67:17 118:14	147:1
53:15,18 56:3	116:24 117:16	139:10	peculiar 120:20
81:12 123:22	118:9 127:6,19	participants	122:10,12
123:22,23	138:9,17,25	79:12	penalty 144:1
131:1 132:15	140:9	participated	146:16 147:5
146:15 147:4	pandemic 36:8	43:19	pending 6:10
148:4,7,10,13	<b>paper</b> 27:9,11	particular	<b>people</b> 56:10
148:16,19	27:12 36:7,14	45:25 84:14	60:13 78:19
pages 1:1 34:15	36:21 37:2	88:15 113:8	79:1 127:18,22
146:14,17,17	<b>papers</b> 31:23	114:15 142:7	131:10 134:8
147:3,6,6	34:13,25 35:3	parties 51:13	136:1
paid 39:14	39:5 43:18	55:25 70:21	people's 121:4
55:16 56:25	paragraph	84:13 107:13	percent 33:25
57:8,10,11,12	29:11 53:17	145:14	34:2 129:17
63:20 64:19	56:14 58:3	<b>parts</b> 20:20	percentage
66:20,23,23	64:21 65:3	<b>party</b> 80:1,1	33:15,22 123:8
68:6,8 69:9	66:7 75:17	passes 31:14	129:11,12
73:16 75:3	81:13,14 83:22	<b>past</b> 23:19	perform 36:16
76:2,8,10,12	83:24 84:6	131:17	52:11 106:10

# [performed - present]

performed 34:7	99:19 104:7,17	<b>point</b> 13:24	practitioner
34:10 68:4	104:18	62:6,13,17	31:10
105:7	perspective	63:25 64:6	precise 123:21
performing	92:1,2 112:3	66:6 67:14,22	128:21
120:6 127:7	115:23	68:19 73:14	precisely
performs 34:4	pertain 23:17	75:13 87:18	108:23 109:1
period 36:5	philosophical	88:10,18 92:23	preclude 24:7
70:1 78:15	58:9	95:24 114:15	62:21
80:7 87:10,22	phrase 38:3	123:12 127:16	predominantly
92:11,15,17	<b>picked</b> 106:24	pointing 65:24	121:15
99:23 128:8	<b>picture</b> 115:13	<b>points</b> 63:11	preferred
134:24 146:18	<b>piece</b> 91:20	142:6	67:25
147:7	<b>pjh</b> 1:6	poloniex	preliminary
periods 124:15	<b>place</b> 51:15	105:12,14	46:17
perjury 144:1	52:9 88:4 89:2	poloniex's	premier 31:10
146:17 147:6	89:4,16	105:17	preparation
permissible	<b>places</b> 10:17,23	popular 17:4	7:16,20 8:6,13
27:11	29:17 103:4	portion 48:24	9:11,20,24 10:1
<b>person</b> 4:18 8:9	plaintiff 2:4	position 11:9,9	11:21 13:6,10
9:12 55:4 60:1	4:14 105:5	92:2	13:13,19,22,23
71:3 75:25	126:21 127:24	possession	19:3,6 32:4,7
79:25 85:14	<b>plaintiff's</b> 7:11	78:21	128:16
91:22 95:17	15:3 24:11,12	possibility 72:3	prepare 6:15
98:9,12 110:15	44:17 50:19	possible 59:23	6:21 8:22
111:4 112:10	85:8	65:21 68:23	10:11 13:25
113:5 115:20	plaintiffs 48:20	78:14 87:13	33:20 131:6
116:6 117:9	<b>plan</b> 33:20	101:6 107:3	prepared 7:10
118:3 145:7	players 44:12	110:5,17	15:3
person's 82:23	<b>plays</b> 14:21	114:13 121:9	preparing 10:5
90:3 99:14	<b>please</b> 4:11,24	122:23 135:24	16:9 32:8
115:9	6:23 61:22	<b>possibly</b> 120:15	134:6 135:13
personal 15:9	111:8	<b>posts</b> 13:18	136:3
99:14	<b>plus</b> 118:11	potential 138:4	present 2:13
personally	123:15	practicing	32:22 84:19
39:20 72:4,12		31:11	

### [presentations - publications]

presentations	primary 33:10	145:5	proposing 67:2
21:18 27:22	33:11 64:12	professionally	74:20 82:5
presented	principles	104:18,19	97:14 99:1
90:22 143:4,8	29:24 31:17	professionals	110:25
presenting	37:9 123:16	31:11	protective 24:7
83:17 93:13	<b>print</b> 45:4	professor 9:14	provide 20:16
presently 28:20	prior 8:10	9:15 10:10	22:9 23:22
39:11	15:19,20,21	17:2,24 28:3,12	26:4,11 33:6
<b>press</b> 12:11	16:2,7,12 126:7	28:16,23 39:12	126:23 131:21
17:4,5	128:16 140:14	89:17,25 91:6	141:21
<b>pretty</b> 46:25	privileged	98:19 128:25	provided 22:11
47:4 57:20	90:15	<b>proffer</b> 69:3	24:11 42:17
previous 60:15	<b>pro</b> 58:10	proficiency	68:18 117:21
previously 92:3	probably 45:1	31:16	127:3 131:3
92:21 125:18	46:19 97:15	proficient	132:1,2 146:19
126:13	<b>problem</b> 36:4,8	142:24	147:8
<b>price</b> 26:25	procedure 1:18	<b>profit</b> 30:16,18	provides 37:14
36:12,22 37:11	146:19,20	30:24 31:2	64:16 75:24
37:21 38:17	proceed 77:5,6	40:15 41:2	108:24 115:17
52:20,21,25	140:19	42:13 51:2,4,7	141:24
53:3 54:22	proceeds	51:24 53:11	providing
55:2,10,11,11	118:10,15	<b>profits</b> 41:8,14	33:16 112:21
61:1,5,18,19,24	process 53:8	42:9	138:6
61:25 62:5,13	produce 20:21	programmers	<b>provisions</b> 1:17
62:16,24 63:12	102:20 107:9	48:10	<b>prying</b> 18:16
73:18 100:8	produced 7:5	progressively	public 1:20
101:3 103:1	7:10 24:18	31:15	21:16 22:15
106:7 110:20	39:6	project 27:9	24:8 37:12
117:7,8 124:12	<b>producing</b> 63:9	propensity 37:5	145:5,20
124:14	production	proposal 67:8	publication
<b>prices</b> 52:6,7	20:4,17 21:2,7	propose 59:16	38:25
52:23,25 61:6	27:19	70:3 77:5 81:2	publications
105:25	professional	96:15 140:7	10:12,21 17:6
primarily	1:19 31:19	proposed 56:12	21:17 22:4,15
10:14 33:3	32:18 135:7	84:24 132:25	22:21,22,22

# [publications - rate]

27:21 31:24	113:14,25	63:16 112:20	97:11 99:7
34:14,16,17,18	116:12 133:15	115:15 118:4	107:17 111:8
35:1,4,8 43:11	133:18 134:23	119:3,8 142:14	113:11 119:6
publicly 100:8	135:9	<b>put</b> 65:10 91:19	119:21,24
101:2 102:25	purchaser's	98:22 114:18	121:22 122:2
114:13	72:23 82:14	115:21 117:6,8	122:13 123:2
publish 29:8	83:13 114:3	118:5,6,7,10,14	questioning
published	116:15	118:19 119:4	95:1
29:12	purchasers	121:25 126:3	questionnaire
purchase 17:21	13:12 53:21	putative 85:13	119:25
18:25 19:1	58:6 60:13	133:14	questions 6:14
54:17 55:13	69:19 70:24	putting 64:18	7:9 11:10
57:9 58:7 70:2	71:22 84:25	98:21	47:24 59:8
71:24 73:18	93:23 95:12	q	69:6 142:25
75:6 76:14	98:1 132:23	qualified 91:25	143:14
81:23 82:9,13	133:4,6,7,9,11	quality 104:9	<b>quick</b> 132:7
82:17 85:16,25	134:3,8 135:3,4	104:11,23,25	quickly 18:13
93:5 100:24	135:16	<b>quantities</b> 52:6	<b>quid</b> 58:10
101:5 108:16	purchases	52:7	<b>quo</b> 58:11
108:18 110:9	54:22 75:25	quantity 48:18	<b>quote</b> 83:21
111:11 114:23	108:8,10	54:22 55:3,10	95:24
117:16 138:10	purchasing	55:11 108:21	r
140:20 141:25	74:25	110:19 112:16	r 4:1 148:3,3
purchased	purports	<b>question</b> 6:3,10	<b>r&amp;s</b> 147:1,9
13:15 56:10,13	101:23 117:11	25:1 26:12,17	range 134:7
57:24 81:20	purpose 72:20	26:20,24 32:14	rate 56:1 69:8
100:7 117:13	94:13	33:19 38:22	69:14 70:3,4,8
133:11 142:13	purposes 10:5	41:6 47:12	70:8 71:3,6
purchaser	11:24,25 16:9	48:11,14 49:25	73:4 77:24
58:13 59:2	46:7 52:17	54:13 58:9	82:7,15,16
60:7,10,20	53:5 85:1	59:6,9 60:16,17	83:10 101:9,16
69:23 81:16	109:19	60:18 74:16	102:1,9,24
82:4,11 85:1,23	pursuant 1:16	85:2 86:23	109:24 114:24
86:5,8,16 87:25	19:23 20:1	89:1 91:24	127:9,11,14,25
91:13 112:4	51:9,18,23,25	94:2,4 95:23,23	128:1 137:2,5,6

# [rate - referring]

		1	
137:11,12,17	realistic 71:18	110:23 115:4	81:4,6,9 85:12
140:11 141:24	88:23	118:13 119:7	101:18,20
142:9	realize 96:18	119:22 120:3	103:16 104:3
<b>rates</b> 61:11	realized 51:5	127:18,20	127:17 132:7,9
64:16 65:7,8	really 14:12	128:24 129:2,6	132:12 143:17
67:9 68:24	20:1 30:21	received 76:4	145:11
69:1,7,12 70:13	43:10 50:20	78:12 79:22	records 49:6
71:21 108:24	82:25 88:12	80:4,8 87:17	100:8,9,11
125:6 137:9,9	95:22 97:19,23	88:12 91:16	101:3 103:1
137:10,15	102:22 113:7	92:4,13 94:9	108:19 109:13
140:24 141:3,9	113:18 114:7	99:18 101:12	118:24 119:1,5
141:22	134:4 142:22	110:24 111:2	119:18 124:22
rather 89:5	<b>realm</b> 72:2	111:12 114:20	124:23,25
96:19 109:25	reason 5:24	114:25 116:16	125:3 128:13
136:23	14:23,25 27:18	116:25 117:9	recover 76:1
rationale 93:22	148:6,9,12,15	117:17 118:17	recovered
94:4,5,5	148:18,21	119:2,3,14,19	78:11
rawley 9:12	reasonable	120:2,21	<b>reduced</b> 145:10
reaching 40:14	88:23 128:22	133:21,25	<b>refer</b> 53:15
reactivity 36:22	140:16,19	134:16,19,22	102:25 132:14
<b>read</b> 6:25,25	recall 10:19,22	135:20,20	143:9
7:2 10:1,8	10:23,25 11:11	136:4,10,23	reference 125:2
11:20,23,25	12:5,7,8,9,13	receives 58:25	referenced
12:4,12,19	12:16,22 13:3	111:4 116:13	63:19 146:6
13:18 18:11	14:10,25 15:15	receiving 88:15	referred 62:23
43:19 44:25	16:12 18:4,5,7	138:5,6	referring 15:7
45:2 46:7	32:2 44:9,23	<b>recent</b> 34:24	15:11 18:11
reading 12:16	45:9 46:17,19	recently 9:16	53:17 62:25
17:3 46:4,17	73:22 92:20	33:25	63:15 66:19
48:8 119:17	104:15 105:20	recognize 28:5	75:17 81:19
146:23 147:9	108:7 128:12	recollection	82:2 85:2
real 72:25 79:5	128:19	23:9 109:16	103:1 104:5
79:7 82:11,14	receipt 111:15	<b>record</b> 4:2,12	110:6 114:21
83:14	receive 55:6	24:15 39:4	130:23 143:10
	58:10,12 78:14	42:16 44:1,4	

# [reflect - reviewed]

reflect 38:18	report 3:10	<b>reports</b> 12:2,3	required
124:1	6:25 7:1,4 8:1	12:4,10 13:1	131:20
reflected 82:24	8:3,22 9:5 10:3	23:15 24:6	requisite 31:18
109:14 124:8	12:12,16,20	33:7,17 44:6	research 8:17
regarded 137:8	13:25 14:16	46:5,7 104:6	29:6,21 32:23
regarding 40:8	15:18,24 16:2,8	129:21,25	33:2 89:22
42:20	16:10,13 19:7	131:18,21	123:20 129:23
regardless 64:7	28:2,7,9 29:10	131.16,21	reserve 67:15
65:3 85:10	32:8 33:21		71:16
		represent 28:9 65:2 89:12	
regime 35:17	42:17 44:9,11 44:14 45:2		respect 46:16 122:5 136:16
registered 1:19		representations	
145:4	46:10,11,13,16	50:5	140:7
regression 36:1	46:20 50:3,16	represented	responded 26:8
related 23:18	50:21 53:14	48:12,21 80:22	responding
37:4 145:13	54:21 60:25	representing	27:19
relates 1:11	65:10 69:18	4:16 5:10	response 20:12
22:9 58:4	74:20 75:12,17	represents	24:18 37:12
relating 21:18	81:13 89:10	63:10 70:16	42:18
21:24,25 39:14	90:16 95:6	87:2	responses 7:9
relation 128:6	102:14 105:1	reputable	responsive
released 146:21	110:7 123:23	67:14 72:7,15	20:15,24 21:22
relevant 14:21	124:4,5,8,24	72:17 73:12	23:22 24:3
47:16 61:12	125:1,10,21,23	102:9 137:8	rest 48:25 49:1
reliable 69:13	125:24 126:17	request 19:16	result 117:5
relied 7:23	127:2 128:6	20:4,12 21:14	retained 126:21
<b>remain</b> 93:16	130:24 131:1	21:16,23 22:20	<b>return</b> 146:17
remember 11:3	132:15 134:6	23:14,20,23	147:6
12:18,23 26:16	134:19,24	25:1,2	review 11:20
125:14 126:8,9	135:1,4,14	requested	16:1 32:4,7
remembers	137:21 138:20	147:1,9,10	104:5 146:8,10
64:11	139:3,4 143:4,8	requests 20:6,7	146:13 147:2
remote 8:10	143:9	20:8,15	reviewed 6:25
remotely 4:20	reporter 1:19	require 117:2	7:15,17,20,23
4:22	4:23 5:21 6:5	131:23 143:6	8:5 11:24,25
	145:5		13:5 44:7 45:6

### [reviewing - see]

reviewing 32:2	146:4 148:1	<b>satisfy</b> 125:16	scratch 106:11
right 15:22,25	<b>ripple's</b> 11:9	save 45:8	sec 11:2,15
16:22 22:17	13:21 14:2,10	savings 91:8,19	12:2,6 44:7,17
28:13 34:20	14:18 16:1	93:24	45:19 46:4
40:7 44:10	risk 80:16	<b>saying</b> 22:14	104:6,14 105:2
55:4,17 56:23	road 102:16	29:23 65:13,19	sec's 11:8
62:2 67:17	role 36:23	68:20 71:20	<b>second</b> 29:10
71:5 78:13	roniger 2:7	72:2 98:5	36:21 60:20
80:3,6,9 83:3	4:17	118:2,5 122:9	<b>section</b> 75:19
83:22 84:6	routinely 9:18	138:10	76:1
89:17 90:22	<b>rules</b> 1:17	says 28:1 57:15	securities 23:18
93:8 95:16	131:16,17,23	70:10 78:10	29:7 35:15
100:21,22	147:8	81:19 92:24	40:19 53:13
101:18,20	run 35:25	113:13 118:3	75:20 132:5
104:20 115:2	54:18 130:8	120:12 133:5,8	security 11:13
117:14,18	running 14:13	135:8 138:22	36:3,11 37:6
119:14 125:20	14:19 36:4	scenario 78:1	47:13 75:15,25
126:9,9,22	131:8	scenarios 70:5	76:2,5,6,9
127:4,5,9 128:2	<b>runs</b> 37:2	schedule	79:10 121:11
129:1,7,8,9,24	S	146:10	138:17 139:1
131:5 132:21	s 3:5 4:1 148:3	<b>school</b> 94:12,13	see 10:12 12:1
133:10,10	sale 18:25 19:1	scientific 40:8	12:15,21 14:12
137:7	47:23 48:1,20	40:11	14:19 15:4
<b>ring</b> 103:9	49:1 54:17,23	<b>scope</b> 30:7,20	16:11 17:6
<b>ripple</b> 1:8 2:14	55:7,7,8,12,13	35:13,23 37:1	18:1 21:20
4:9,21 10:7,13	55:14 56:7,20	38:10 47:17,19	22:14 23:20
10:14,19 11:1	79:20 90:3	49:3,9,18 50:14	35:17 37:3,19
14:24 21:19	98:3 113:25	60:4,6 69:7	56:19 75:20
22:2,13,19,24	115:1 116:17	70:6 71:7 73:6	78:1 81:23
25:4,9,15,23	117:5,7,17,22	77:15 82:19	100:3,4,9 101:3
47:21,22 48:12	118:11,17	83:4 95:19	104:22 114:1
48:14,19,22,22	119:8,15,23	107:7,16,17,24	125:24 127:24
48:23 58:23,25	120:12	108:3,5 122:17	130:23 132:17
78:17 79:17,17	sales 54:23	128:5 135:3	133:5 138:18
80:19 103:9	106:14 118:15	137:14	138:22 142:15

### [seeing - sostack's]

seeing 10:19,25	serve 126:22	similar 10:18	social 9:23
14:10	served 130:2	65:22,23 66:1	13:17,18
seek 102:8	session 104:1	66:15	software 49:10
seeks 73:12	set 20:8 97:14	similarities	solar 37:25
seem 116:21	110:23 111:3	30:9 41:17	38:12
seems 62:19	142:16 145:16	simultaneously	<b>sold</b> 39:22
110:14 113:9	<b>sets</b> 81:14	114:17	47:22 48:19,25
117:6 130:8	117:15	sir 53:25	56:11 68:7
seen 10:17	setting 6:18	sit 7:25 11:5	80:10 81:16,21
12:11 18:13	95:14	18:6 44:22	98:10 99:21
19:20 20:6,8,10	settlement	46:21,22 50:24	117:13 119:2
126:13	70:12 89:5	74:17 112:5,22	135:22 136:11
sell 51:14 59:21	several 104:11	113:21 117:6	142:14
79:13 87:11,22	<b>share</b> 20:25	123:5	<b>sole</b> 33:13
91:11 102:2	24:19 99:6	sitting 21:6	solicitation
113:3 115:17	<b>shawn</b> 2:12 4:3	47:6 50:25	48:1
116:12 118:8	<b>shoes</b> 98:22	51:8 63:3	solicited 47:22
141:25	<b>short</b> 79:13,20	123:7,21	48:19 85:10
seller 115:3	<b>show</b> 100:20,23	141:14	solutions 4:4
117:21	<b>shows</b> 31:16	situation	146:7
selling 74:25	<b>side</b> 12:15,17	111:25 116:1	solves 36:8
95:5 117:9	12:23 15:1	117:20	<b>sorry</b> 94:3
120:2	29:5,6 44:13,17	<b>skim</b> 13:2	108:9
sells 91:21 99:9	44:18 45:19	skimmed 12:3	<b>sort</b> 28:21
118:3	102:19	44:8	29:23 31:18
seminars 43:19	<b>sides</b> 45:17	<b>slides</b> 21:18	72:24 86:17
sense 13:1 63:3	50:6	25:13,14 27:22	109:19 114:18
88:10 94:7	<b>sign</b> 146:16	<b>slight</b> 68:10	122:10 135:23
separate 11:23	147:5	slightly 66:9	sostack 4:14
74:3 75:3	signature	84:14 93:14	68:22 106:13
79:15 80:17	145:19 146:21	<b>small</b> 17:21	106:17 108:17
september	146:23,23	18:19 63:4	124:25
34:18	147:9	119:18	sostack's 105:5
series 31:14	significantly	smoothly 5:13	105:22 108:6
	37:6		109:4,13

#### [sound - statute]

<b>sound</b> 59:5	65:18 70:6	138:2	<b>stand</b> 103:10
sounds 53:7	71:7,25 73:5	specifics 30:22	standard 52:14
60:5 92:6	77:15 82:18	specified 109:1	109:17
122:1	83:4,15 84:7	109:11	standardization
<b>source</b> 67:13,18	85:6,17 86:21	specify 109:9	121:13 122:20
67:20,24	90:11,17 94:1	speculate 46:24	standardized
142:10	95:19 101:19	47:10	121:5,6,8,16
sources 82:21	102:4 103:14	speculation	122:22 123:14
123:10 124:16	107:7,15,20	85:18 110:4	stands 31:9
142:11	110:3 113:16	113:17 114:6	stars 2:3
<b>space</b> 35:10	114:4 115:6,10	115:12 116:20	<b>start</b> 75:23
36:16,25 38:24	116:18 117:24	117:25 118:23	81:21 90:4
<b>spaces</b> 41:23	118:22 121:21	122:8,18	114:22 138:9
spalding 2:6	122:7,17 128:5	142:19	<b>state</b> 9:17 23:18
4:16,18,20 5:9	128:11 131:7	<b>spell</b> 136:8	127:2 146:9,12
<b>speak</b> 8:15 9:10	131:15 135:17	spelled 50:15	statement
9:20 13:12	136:6,19 137:3	spend 14:4	15:14 22:9,20
59:14 99:14	137:13,25	134:20	46:18
100:4	140:13 142:18	spends 99:8	statements 7:5
speaking 4:3	143:15	<b>spent</b> 31:18	7:18,19 21:17
60:18 128:24	specialize 29:4	<b>spoke</b> 8:20 13:9	22:4,11,15
speaks 85:12	specific 36:18	48:8	27:21
<b>spear</b> 2:3 4:13	39:1 42:8	spoken 9:13	<b>states</b> 1:3 96:1
4:13 6:22 9:1,6	49:20 50:22	<b>spread</b> 73:22	96:2,2,16,17,18
15:6 20:18	54:6 101:20	73:24,25 74:1,4	statute 57:15
21:11 23:24	102:17 105:15	74:24 86:18	59:13,13 68:15
24:15,21 29:16	specifically 8:4	87:1,2 106:1,2	68:16 70:18,19
30:7,13,20 31:5	10:11,22,24	106:6	75:24 77:25
35:12,23 37:1	17:16 18:4,6	spreads 74:8	78:9,10 79:8,21
38:10 39:3	22:1,5,12 25:7	<b>spur</b> 27:12	83:19,20,21,21
40:10,17 41:4	25:9 29:15,19	ss 145:2	83:25 84:2,3,19
43:14,20 47:19	37:23 38:4,8,14	<b>staff</b> 8:16 9:5	86:11,12 90:6
49:3,9,18 50:14	62:3 63:1	9:10,14,19 13:9	92:24 93:11
51:11 52:13	81:13 97:9	33:1 45:15,16	95:8,8 96:17
58:8,14 59:3	123:1 126:13	128:1 129:24	97:25 139:7

#### [statutory - talked]

statutory 53:23	<b>study</b> 22:18	suffice 118:24	swear 4:25
84:4 87:4	29:21 35:25	suffolk 145:2	swiss 85:14,15
138:15	36:4,17 123:4	suggest 103:12	95:13,13,16
<b>steven</b> 1:14 3:3	studying 46:4	suggested	97:2,3 141:6
3:10 4:8 5:1	subject 23:24	27:11	sworn 5:4
19:15 28:3	31:24 37:11	suggesting	145:7
146:5 148:2	44:20 61:20	117:19	syllabus 27:6
stipulation	submitted	<b>summary</b> 65:17	27:10,17
146:20	15:18,23 23:16	supervise	synonymous
<b>stock</b> 30:17	28:10 98:7	129:23	94:20
36:13,22 49:19	submitting	supplied 52:17	t
49:19,20 74:7	16:2,7,12 19:6	53:1	t 3:5 148:3,3
stocks 29:7	137:20	<b>supply</b> 52:19	table 94:19
30:15 31:3	subscribed	support 33:7	tactic 130:8
37:4 40:20	144:2	33:23	take 4:7 6:5,8
41:23 74:8	subsequent	<b>sure</b> 6:5 10:16	19:24 35:14
straddling 93:8	115:8 119:7	12:22 14:9	41:21 42:11
96:19	125:1	15:8,16 20:22	43:21,23 52:3
straightforward	substance 6:16	21:7 25:2 26:6	66:13 79:4
53:22 93:1	6:18 9:4 45:10	26:18 30:14	81:1 82:22
119:17,24	45:14,21	46:25 47:4	87:9,21 88:4
135:25 136:13	subsumed 22:7	58:20,24 59:10	89:2,4 96:7
140:4 141:11	subtract 78:11	67:21 71:10	98:9 100:16,17
street 1:22	114:25	73:21 87:13	102:17 116:22
10:15,20	succeeded	98:25 102:23	132:6 133:16
strike 75:22	130:11	110:5 111:21	taken 26:19
90:4 117:7	successful	112:2 118:12	44:2 81:7
138:11,13	132:4	142:2,22	103:17 132:10
structure	<b>sue</b> 76:1	<b>surmise</b> 123:16	142:5
105:17	<b>suffer</b> 87:11	susman 2:2	takes 37:16
students 26:5	suffered 91:17	4:13	89:15 120:19
26:22 27:8	99:15,22 113:6	susmangodfr	talk 6:4 8:12
39:9 98:22	113:14 133:6	2:5	113:7
studies 35:16	136:14	sustained 56:11	<b>talked</b> 66:15,18
		113:15	00.13,10

# [talking - time]

tolking 96:25	tomm 27:0 0 11	thoorotically	84:9 86:23
talking 86:25	term 27:9,9,11	theoretically 110:17	
101:19	27:12 54:12		90:1 94:24
talks 38:15	90:6 94:17,17	theory 50:19	95:22 97:19,21
tangible 59:21	138:16,25	thereon 57:16	97:24 98:1
60:2 78:3	terms 52:4	76:3,4,22 77:11	99:3,15,19,22
112:13	86:14 88:20	77:12,22,24	101:13 102:15
task 43:2 96:8	92:16 94:6,8,9	78:12 79:9,22	104:12 107:20
96:14	94:11 111:5	80:15 92:25	108:2 111:7,18
taught 27:7	112:16 114:19	93:1 94:10	112:22 114:7
tax 98:7,14,15	121:5 123:18	117:16 138:18	118:10,12,15
taxes 98:2,5,18	<b>test</b> 26:19	139:12	118:24 119:4
taxonomy	testified 5:4	<b>thing</b> 12:21	119:15 120:5
136:8	35:5 89:21	38:8 55:6 81:2	124:10 125:2
teach 28:14,18	107:20 125:18	112:15,23	133:5 134:17
28:23,24 89:19	testify 145:7	119:9	134:18,23
94:12	testimony 3:2	<b>things</b> 20:20	135:6,14,19,19
teaching 25:8	5:25 23:15	48:1 79:20	thinking 25:25
26:15 28:11,22	24:6 33:7,16,21	116:7 126:12	26:4 27:3,3,5
29:6 89:22	41:21 43:3	think 7:22,24	50:24 134:21
129:14	46:6 65:17	8:4 9:2 14:20	<b>thinks</b> 108:1
teachings 43:11	72:1 97:6	16:19 21:3,12	<b>third</b> 80:1,1
technology	111:23 129:22	26:7,10,11,18	thought 112:1
21:20 22:3	131:3,13,19,22	26:19 27:20	131:16 134:7
23:4 25:5,11,16	131:24 135:1	34:23 43:6,15	three 31:14
25:24 49:5	135:18 136:2,7	45:3,9,23 47:9	34:25 35:7
tell 11:5 25:25	140:14 145:11	47:11,14 53:16	39:5 117:15
46:20 47:10	tests 37:2 38:16	54:6 57:19	<b>ticket</b> 119:18
103:7 142:6	tether 57:3	58:21 59:8,9,13	<b>tied</b> 26:21
ten 14:6,9	66:24 82:5	59:19,23 64:11	27:16
23:19 132:2	108:13 125:12	66:14 67:14,25	time 4:5 14:14
<b>tend</b> 29:4	141:2,3	68:12 70:7,17	14:16 15:23
tender 76:4	texas 2:7	71:17,19 72:4	17:9 21:8 27:5
tendered 57:2	<b>thank</b> 5:11	72:12 77:3,22	27:18 31:18
tends 121:11	27:23 39:8	77:25 78:8	34:3,22 43:25
122:21	104:5	82:23 83:12	44:4 52:8

#### [time - translate]

57:6,23 61:15         timing         15:16         towards         37:7         73:20 74:1,10           61:16,19 62:1,6         62:14,17 63:11         131:3         124:11         74:20,23 75:1           68:13 70:1,8,22         today         4:24 5:10         101:7 109:21         82:24 83:7           72:6,14 73:4,14         5:13,25 7:16,20         traded         17:20         86:2,17,18 87           76:13 78:15         8:6,13 9:11,21         37:10 51:9         87:5 88:5 89:6           80:7 81:5,9,22         9:24 10:2 13:6         105:9         105:13,20,25           82:9,16 85:25         13:10,13,19,22         trader 106:13         106:2,7 108:19           87:10,18,19,22         18:7,21 19:23         traders 49:11         109:4,14,25           88:5,10,14,18         21:6 32:5 47:6         trades 18:23         112:18 122:13           89:4,6 92:23         50:25 51:8         49:12 121:4,5,7         122:24 138:4,9           93:4 98:24         63:3 69:18         121:16 123:19         140:12           100:24 101:5         107:21 112:2         trading         18:18         49:6,7,8 51:22           104:3 108:16         139:2,15         42:14 51:15         53:1 57:7           109:3,3,14,24         141:15         63:12 85:4         68:14 70:9 </th <th></th> <th></th> <th></th> <th></th>				
61:16,19 62:1,6         titled         19:14         124:11         74:20,23 75:1           62:14,17 63:11         131:3         trade         40:15         79:16,16 80:1           68:13 70:1,8,22         today         4:24 5:10         101:7 109:21         82:24 83:7           72:6,14 73:4,14         5:13,25 7:16,20         traded         17:20         86:2,17,18 87           76:13 78:15         8:6,13 9:11,21         37:10 51:9         87:5 88:5 89:6           80:7 81:5,9,22         9:24 10:2 13:6         105:9         105:13,20,25           82:9,16 85:25         13:10,13,19,22         trader         106:13         106:2,7 108:19           87:10,18,19,22         18:7,21 19:23         traders         49:11         109:4,14,25           87:10,18,19,22         18:7,21 19:23         traders         49:11         109:4,14,25           88:5,10,14,18         21:6 32:5 47:6         trades         18:23         102:4,14,25         102:14,125           89:4,6 92:23         50:25 51:8         49:12 121:4,5,7         122:24 138:4,*           93:4 98:24         107:21 112:2         trading         18:18         transactions           100:24 101:5         107:21 112:2         trading         18:18         49:6,7,8 51:22           <	55:12,12,12,13	130:7	touching 145:8	72:6,14 73:17
62:14,17 63:11         131:3         trade 40:15         79:16,16 80:1           68:13 70:1,8,22         today 4:24 5:10         101:7 109:21         82:24 83:7           72:6,14 73:4,14         5:13,25 7:16,20         traded 17:20         86:2,17,18 87           76:13 78:15         8:6,13 9:11,21         37:10 51:9         87:5 88:5 89:6           80:7 81:5,9,22         9:24 10:2 13:6         105:9         105:13,20,25           82:9,16 85:25         13:10,13,19,22         trader 106:13         106:2,7 108:19           87:10,18,19,22         18:7,21 19:23         traders 49:11         109:4,14,25           89:4,6 92:23         50:25 51:8         49:12 121:4,5,7         122:24 138:4,*           93:4 98:24         63:3 69:18         121:16 123:19         140:12         trading 18:18         122:24 138:4,*           100:24 101:5         107:21 112:2         trading 18:18         49:6,7,8 51:22         transactions           102:14 103:15         139:2,15         42:14 51:15         53:1 57:7           109:3,3,14,24         141:15         63:12 85:4         68:14 70:9           111:10,15         6:21 11:21         101:17,20         82:23 105:18           112:17,25         15:19 19:3         109:2,13         108:12 114:17           115:5	57:6,23 61:15	<b>timing</b> 15:16	towards 37:7	73:20 74:1,10
68:13 70:1,8,22         today         4:24 5:10         101:7 109:21         82:24 83:7           72:6,14 73:4,14         5:13,25 7:16,20         traded         17:20         86:2,17,18 87:           76:13 78:15         8:6,13 9:11,21         37:10 51:9         87:5 88:5 89:6           80:7 81:5,9,22         9:24 10:2 13:6         105:9         105:13,20,25           82:9,16 85:25         13:10,13,19,22         trader         106:2,7 108:11           87:10,18,19,22         18:7,21 19:23         traders         49:11         109:4,14,25           88:5,10,14,18         21:6 32:5 47:6         trades         18:23         112:18 122:13           89:4,6 92:23         50:25 51:8         49:12 121:4,5,7         122:24 138:4,           93:4 98:24         63:3 69:18         121:16 123:19         transactions           102:14 103:15         107:21 112:2         trading         18:18         transactions           102:14 103:15         139:2,15         42:14 51:15         53:1 57:7           109:3,3,14,24         141:15         63:12 85:4         68:14 70:9           110:9,20 111:1         today's         4:4         100:7,11,19         78:19 79:1           11:15,5 117:16         48:2,18 78:18         119:18 121:1,2         123:1	61:16,19 62:1,6	<b>titled</b> 19:14	124:11	·
72:6,14 73:4,14         5:13,25 7:16,20         traded 17:20         86:2,17,18 87:5 88:5 89:6           76:13 78:15         8:6,13 9:11,21         37:10 51:9         105:13,20,25           80:7 81:5,9,22         9:24 10:2 13:6         105:9         105:13,20,25           82:9,16 85:25         13:10,13,19,22         trader 106:13         106:2,7 108:19           87:10,18,19,22         18:7,21 19:23         trader 106:13         109:4,14,25           88:5,10,14,18         21:6 32:5 47:6         trades 18:23         112:18 122:13           89:4,6 92:23         50:25 51:8         49:12 121:4,5,7         122:24 138:4,           93:4 98:24         63:3 69:18         121:16 123:19         140:12           100:24 101:5         107:21 112:2         trading 18:18         transactions           102:14 103:15         123:7 128:17         38:17 41:3         49:6,7,8 51:22           104:3 108:16         139:2,15         42:14 51:15         53:1 57:7           109:3,3,14,24         141:15         63:12 85:4         68:14 70:9           110:9,20 111:1         today's 4:4         100:7,11,19         78:19 79:1           115:5 117:16         48:2,18 78:18         119:18 121:1,2         123:8           115:5 117:16         48:2,18 78:18         121:3,11	62:14,17 63:11	131:3	<b>trade</b> 40:15	79:16,16 80:17
76:13 78:15         8:6,13 9:11,21         37:10 51:9         87:5 88:5 89:6           80:7 81:5,9,22         9:24 10:2 13:6         105:9         105:13,20,25           82:9,16 85:25         13:10,13,19,22         trader 106:13         106:2,7 108:19           87:10,18,19,22         18:7,21 19:23         traders 49:11         109:4,14,25           88:5,10,14,18         21:6 32:5 47:6         traders 49:11         109:4,14,25           89:4,6 92:23         50:25 51:8         49:12 121:4,5,7         122:24 138:4,           93:4 98:24         63:3 69:18         121:16 123:19         140:12           100:24 101:5         107:21 112:2         trading 18:18         49:6,7,8 51:22           104:3 108:16         139:2,15         42:14 51:15         53:1 57:7           109:3,3,14,24         141:15         63:12 85:4         68:14 70:9           110:9,20 111:1         today's 4:4         100:7,11,19         78:19 79:1           111:10,15         6:21 11:21         101:17,20         82:23 105:18           112:17,25         15:19 19:3         109:2,13         108:12 114:17           115:5 117:16         48:2,18 78:18         119:18 121:1,2         123:8           119:10 120:12         80:20 116:7,8,9         122:19,21,22         146:6,8,10,13 <td>68:13 70:1,8,22</td> <td><b>today</b> 4:24 5:10</td> <td>101:7 109:21</td> <td>82:24 83:7</td>	68:13 70:1,8,22	<b>today</b> 4:24 5:10	101:7 109:21	82:24 83:7
80:7 81:5,9,22         9:24 10:2 13:6         105:9         105:13,20,25           82:9,16 85:25         13:10,13,19,22         trader 106:13         106:2,7 108:19           87:10,18,19,22         18:7,21 19:23         traders 49:11         109:4,14,25           88:5,10,14,18         21:6 32:5 47:6         trades 18:23         112:18 122:13           89:4,6 92:23         50:25 51:8         49:12 121:4,5,7         122:24 138:4,           93:4 98:24         63:3 69:18         121:16 123:19         140:12           100:24 101:5         107:21 112:2         trading 18:18         transactions           102:14 103:15         123:7 128:17         38:17 41:3         49:6,7,8 51:22           104:3 108:16         139:2,15         42:14 51:15         53:1 57:7           109:3,3,14,24         141:15         63:12 85:4         68:14 70:9           110:9,20 111:1         today's 4:4         100:7,11,19         78:19 79:1           111:10,15         6:21 11:21         101:17,20         82:23 105:18           112:17,25         15:19 19:3         109:2,13         108:12 114:17           115:5 117:16         48:2,18 78:18         119:18 121:1,2         123:8           119:10 120:12         80:20 116:7,8,9         122:19,21,22         146:6,8,10,13 <td>72:6,14 73:4,14</td> <td>5:13,25 7:16,20</td> <td>traded 17:20</td> <td>86:2,17,18 87:2</td>	72:6,14 73:4,14	5:13,25 7:16,20	traded 17:20	86:2,17,18 87:2
82:9,16 85:25       13:10,13,19,22       trader 106:13       106:2,7 108:19         87:10,18,19,22       18:7,21 19:23       traders 49:11       109:4,14,25         88:5,10,14,18       21:6 32:5 47:6       trades 18:23       112:18 122:13         89:4,6 92:23       50:25 51:8       49:12 121:4,5,7       122:24 138:4,         93:4 98:24       63:3 69:18       121:16 123:19       140:12         100:24 101:5       107:21 112:2       trading 18:18       49:6,7,8 51:22         104:3 108:16       139:2,15       42:14 51:15       53:1 57:7         109:3,3,14,24       141:15       63:12 85:4       68:14 70:9         110:9,20 111:1       today's 4:4       100:7,11,19       78:19 79:1         111:10,15       6:21 11:21       101:17,20       82:23 105:18         112:17,25       15:19 19:3       109:2,13       108:12 114:17         114:15,22,25       tokens 11:13       118:24 119:1,5       117:2 122:5         115:5 117:16       48:2,18 78:18       119:18 121:1,2       123:8         119:10 120:12       80:20 116:7,8,9       122:19,21,22       146:6,8,10,13         125:24 127:25       told 131:17       123:13,13       146:13,21         125:24 127:25       tools 37:9,14,16       124:22,23,25	76:13 78:15	8:6,13 9:11,21	37:10 51:9	87:5 88:5 89:6
87:10,18,19,22       18:7,21 19:23       traders 49:11       109:4,14,25         88:5,10,14,18       21:6 32:5 47:6       trades 18:23       112:18 122:13         89:4,6 92:23       50:25 51:8       49:12 121:4,5,7       122:24 138:4,         93:4 98:24       63:3 69:18       121:16 123:19       140:12         100:24 101:5       107:21 112:2       trading 18:18       transactions         102:14 103:15       123:7 128:17       38:17 41:3       49:6,7,8 51:22         104:3 108:16       139:2,15       42:14 51:15       53:1 57:7         109:3,3,14,24       141:15       63:12 85:4       68:14 70:9         110:9,20 111:1       today's 4:4       100:7,11,19       78:19 79:1         111:10,15       6:21 11:21       101:17,20       82:23 105:18         112:17,25       15:19 19:3       109:2,13       108:12 114:17         114:15,22,25       tokens 11:13       118:24 119:1,5       117:2 122:5         115:5 117:16       48:2,18 78:18       119:18 121:1,2       123:8         117:17,22       80:20 116:7,8,9       122:19,21,22       146:6,8,10,13         125:24 127:25       told 131:17       123:13,13       146:13,21         128:1 132:8,12       took 51:15 52:9       124:22,23,25       14	80:7 81:5,9,22	9:24 10:2 13:6	105:9	105:13,20,25
88:5,10,14,18       21:6 32:5 47:6       trades 18:23       112:18 122:13         89:4,6 92:23       50:25 51:8       49:12 121:4,5,7       122:24 138:4,         93:4 98:24       63:3 69:18       121:16 123:19       140:12         100:24 101:5       107:21 112:2       trading 18:18       transactions         102:14 103:15       123:7 128:17       38:17 41:3       49:6,7,8 51:22         104:3 108:16       139:2,15       42:14 51:15       53:1 57:7         109:3,3,14,24       141:15       63:12 85:4       68:14 70:9         110:9,20 111:1       today's 4:4       100:7,11,19       78:19 79:1         111:10,15       6:21 11:21       101:17,20       82:23 105:18         112:17,25       15:19 19:3       109:2,13       108:12 114:17         114:15,22,25       tokens 11:13       118:24 119:1,5       117:2 122:5         115:5 117:16       48:2,18 78:18       119:18 121:1,2       123:8         117:17,22       78:24 79:18       121:3,11       transcript         119:10 120:12       80:20 116:7,8,9       122:19,21,22       146:6,8,10,13         125:24 127:25       told 131:17       123:13,13       146:13,21         128:1 136:22       tools 37:9,14,16       125:2       transferred	82:9,16 85:25	13:10,13,19,22	<b>trader</b> 106:13	106:2,7 108:19
89:4,6 92:23       50:25 51:8       49:12 121:4,5,7       122:24 138:4,9         93:4 98:24       63:3 69:18       121:16 123:19       140:12         100:24 101:5       107:21 112:2       trading 18:18       49:6,7,8 51:22         102:14 103:15       123:7 128:17       38:17 41:3       49:6,7,8 51:22         104:3 108:16       139:2,15       42:14 51:15       53:1 57:7         109:3,3,14,24       141:15       63:12 85:4       68:14 70:9         110:9,20 111:1       today's 4:4       100:7,11,19       78:19 79:1         111:10,15       6:21 11:21       101:17,20       82:23 105:18         112:17,25       15:19 19:3       109:2,13       108:12 114:17         114:15,22,25       tokens 11:13       118:24 119:1,5       117:2 122:5         115:5 117:16       48:2,18 78:18       119:18 121:1,2       123:8         117:17,22       78:24 79:18       121:3,11       transcript         119:10 120:12       80:20 116:7,8,9       122:19,21,22       146:6,8,10,13         125:24 127:25       told 131:17       123:13,13       146:13,21         128:1 132:8,12       took 51:15 52:9       124:22,23,25       147:2,2         136:24 137:12       37:20 38:23       traditional       21:4 70:25	87:10,18,19,22	18:7,21 19:23	traders 49:11	109:4,14,25
93:4 98:24         63:3 69:18         121:16 123:19         140:12           100:24 101:5         107:21 112:2         trading 18:18         transactions           102:14 103:15         123:7 128:17         38:17 41:3         49:6,7,8 51:22           104:3 108:16         139:2,15         42:14 51:15         53:1 57:7           109:3,3,14,24         141:15         63:12 85:4         68:14 70:9           110:9,20 111:1         today's 4:4         100:7,11,19         78:19 79:1           111:10,15         6:21 11:21         101:17,20         82:23 105:18           112:17,25         15:19 19:3         109:2,13         108:12 114:17           114:15,22,25         tokens 11:13         118:24 119:1,5         117:2 122:5           115:5 117:16         48:2,18 78:18         119:18 121:1,2         123:8           117:17,22         78:24 79:18         121:3,11         transcript           119:10 120:12         80:20 116:7,8,9         122:19,21,22         146:6,8,10,13           125:24 127:25         told 131:17         123:13,13         146:13,21           128:1 132:8,12         took 51:15 52:9         124:22,23,25         147:2,2           134:21 136:22         tools 37:9,14,16         125:2         transferred           <	88:5,10,14,18	21:6 32:5 47:6	<b>trades</b> 18:23	112:18 122:13
100:24 101:5         107:21 112:2         trading 18:18         transactions           102:14 103:15         123:7 128:17         38:17 41:3         49:6,7,8 51:22           104:3 108:16         139:2,15         42:14 51:15         53:1 57:7           109:3,3,14,24         141:15         63:12 85:4         68:14 70:9           110:9,20 111:1         today's 4:4         100:7,11,19         78:19 79:1           111:10,15         6:21 11:21         101:17,20         82:23 105:18           112:17,25         15:19 19:3         109:2,13         108:12 114:17           114:15,22,25         tokens 11:13         118:24 119:1,5         117:2 122:5           115:5 117:16         48:2,18 78:18         119:18 121:1,2         123:8           117:17,22         78:24 79:18         121:3,11         transcript           119:10 120:12         80:20 116:7,8,9         122:19,21,22         146:6,8,10,13           125:24 127:25         told 131:17         123:13,13         146:13,21           128:1 132:8,12         took 51:15 52:9         124:22,23,25         147:2,2           134:21 136:22         tools 37:9,14,16         125:2         transferred           136:24 137:12         37:20 38:23         traditional         21:4 70:25	89:4,6 92:23	50:25 51:8	49:12 121:4,5,7	122:24 138:4,7
102:14 103:15       123:7 128:17       38:17 41:3       49:6,7,8 51:22         104:3 108:16       139:2,15       42:14 51:15       53:1 57:7         109:3,3,14,24       141:15       63:12 85:4       68:14 70:9         110:9,20 111:1       today's 4:4       100:7,11,19       78:19 79:1         111:10,15       6:21 11:21       101:17,20       82:23 105:18         112:17,25       15:19 19:3       109:2,13       108:12 114:17         114:15,22,25       tokens 11:13       118:24 119:1,5       117:2 122:5         115:5 117:16       48:2,18 78:18       119:18 121:1,2       123:8         117:17,22       78:24 79:18       121:3,11       transcript         119:10 120:12       80:20 116:7,8,9       122:19,21,22       146:6,8,10,13         125:24 127:25       told 131:17       123:13,13       146:13,21         128:1 132:8,12       took 51:15 52:9       124:22,23,25       147:2,2         134:21 136:22       tools 37:9,14,16       125:2       transferred         136:24 137:12       37:20 38:23       traditional       21:4 70:25	93:4 98:24	63:3 69:18	121:16 123:19	140:12
104:3 108:16       139:2,15       42:14 51:15       53:1 57:7         109:3,3,14,24       141:15       63:12 85:4       68:14 70:9         110:9,20 111:1       today's 4:4       100:7,11,19       78:19 79:1         111:10,15       6:21 11:21       101:17,20       82:23 105:18         112:17,25       15:19 19:3       109:2,13       108:12 114:17         114:15,22,25       tokens 11:13       118:24 119:1,5       117:2 122:5         115:5 117:16       48:2,18 78:18       119:18 121:1,2       123:8         117:17,22       78:24 79:18       121:3,11       transcript         119:10 120:12       80:20 116:7,8,9       122:19,21,22       146:6,8,10,13         125:24 127:25       told 131:17       123:13,13       146:13,21         128:1 132:8,12       took 51:15 52:9       124:22,23,25       147:2,2         134:21 136:22       tools 37:9,14,16       125:2       transferred         136:24 137:12       37:20 38:23       traditional       21:4 70:25	100:24 101:5	107:21 112:2	trading 18:18	transactions
109:3,3,14,24       141:15       63:12 85:4       68:14 70:9         110:9,20 111:1       today's 4:4       100:7,11,19       78:19 79:1         111:10,15       6:21 11:21       101:17,20       82:23 105:18         112:17,25       15:19 19:3       109:2,13       108:12 114:17         114:15,22,25       tokens 11:13       118:24 119:1,5       117:2 122:5         115:5 117:16       48:2,18 78:18       119:18 121:1,2       123:8         117:17,22       78:24 79:18       121:3,11       transcript         119:10 120:12       80:20 116:7,8,9       122:19,21,22       146:6,8,10,13         125:24 127:25       told 131:17       123:13,13       146:13,21         128:1 132:8,12       took 51:15 52:9       124:22,23,25       147:2,2         134:21 136:22       tools 37:9,14,16       125:2       transferred         136:24 137:12       37:20 38:23       traditional       21:4 70:25	102:14 103:15	123:7 128:17	38:17 41:3	49:6,7,8 51:22
110:9,20 111:1         today's 4:4         100:7,11,19         78:19 79:1           111:10,15         6:21 11:21         101:17,20         82:23 105:18           112:17,25         15:19 19:3         109:2,13         108:12 114:17           114:15,22,25         tokens 11:13         118:24 119:1,5         117:2 122:5           115:5 117:16         48:2,18 78:18         119:18 121:1,2         123:8           117:17,22         78:24 79:18         121:3,11         transcript           119:10 120:12         80:20 116:7,8,9         122:19,21,22         146:6,8,10,13           125:24 127:25         told 131:17         123:13,13         146:13,21           128:1 132:8,12         took 51:15 52:9         124:22,23,25         147:2,2           134:21 136:22         tools 37:9,14,16         125:2         transferred           136:24 137:12         37:20 38:23         traditional         21:4 70:25	104:3 108:16	139:2,15	42:14 51:15	53:1 57:7
111:10,15       6:21 11:21       101:17,20       82:23 105:18         112:17,25       15:19 19:3       109:2,13       108:12 114:17         114:15,22,25       tokens 11:13       118:24 119:1,5       117:2 122:5         115:5 117:16       48:2,18 78:18       119:18 121:1,2       123:8         117:17,22       78:24 79:18       121:3,11       transcript         119:10 120:12       80:20 116:7,8,9       122:19,21,22       146:6,8,10,13         125:24 127:25       told 131:17       123:13,13       146:13,21         128:1 132:8,12       took 51:15 52:9       124:22,23,25       147:2,2         136:24 137:12       37:20 38:23       traditional       21:4 70:25	109:3,3,14,24	141:15	63:12 85:4	68:14 70:9
112:17,25       15:19 19:3       109:2,13       108:12 114:17         114:15,22,25       tokens 11:13       118:24 119:1,5       117:2 122:5         115:5 117:16       48:2,18 78:18       119:18 121:1,2       123:8         117:17,22       78:24 79:18       121:3,11       transcript         119:10 120:12       80:20 116:7,8,9       122:19,21,22       146:6,8,10,13         125:24 127:25       told 131:17       123:13,13       146:13,21         128:1 132:8,12       took 51:15 52:9       124:22,23,25       147:2,2         134:21 136:22       tools 37:9,14,16       125:2       transferred         136:24 137:12       37:20 38:23       traditional       21:4 70:25	110:9,20 111:1	today's 4:4	100:7,11,19	78:19 79:1
114:15,22,25         tokens         11:13         118:24 119:1,5         117:2 122:5           115:5 117:16         48:2,18 78:18         119:18 121:1,2         123:8           117:17,22         78:24 79:18         121:3,11         transcript           119:10 120:12         80:20 116:7,8,9         122:19,21,22         146:6,8,10,13           125:24 127:25         told         131:17         123:13,13         146:13,21           128:1 132:8,12         took         51:15 52:9         124:22,23,25         147:2,2           134:21 136:22         tools         37:9,14,16         125:2         transferred           136:24 137:12         37:20 38:23         traditional         21:4 70:25	111:10,15	6:21 11:21	101:17,20	82:23 105:18
115:5 117:16       48:2,18 78:18       119:18 121:1,2       123:8         117:17,22       78:24 79:18       121:3,11       transcript         119:10 120:12       80:20 116:7,8,9       122:19,21,22       146:6,8,10,13         125:24 127:25       told 131:17       123:13,13       146:13,21         128:1 132:8,12       took 51:15 52:9       124:22,23,25       147:2,2         134:21 136:22       tools 37:9,14,16       125:2       transferred         136:24 137:12       37:20 38:23       traditional       21:4 70:25	112:17,25	15:19 19:3	109:2,13	108:12 114:17
117:17,22       78:24 79:18       121:3,11       transcript         119:10 120:12       80:20 116:7,8,9       122:19,21,22       146:6,8,10,13         125:24 127:25       told 131:17       123:13,13       146:13,21         128:1 132:8,12       took 51:15 52:9       124:22,23,25       147:2,2         134:21 136:22       tools 37:9,14,16       125:2       transferred         136:24 137:12       37:20 38:23       traditional       21:4 70:25	114:15,22,25	<b>tokens</b> 11:13	118:24 119:1,5	117:2 122:5
119:10 120:12       80:20 116:7,8,9       122:19,21,22       146:6,8,10,13         125:24 127:25       told 131:17       123:13,13       146:13,21         128:1 132:8,12       took 51:15 52:9       124:22,23,25       147:2,2         134:21 136:22       tools 37:9,14,16       125:2       transferred         136:24 137:12       37:20 38:23       traditional       21:4 70:25	115:5 117:16	48:2,18 78:18	119:18 121:1,2	123:8
125:24 127:25       told 131:17       123:13,13       146:13,21         128:1 132:8,12       took 51:15 52:9       124:22,23,25       147:2,2         134:21 136:22       tools 37:9,14,16       125:2       transferred         136:24 137:12       37:20 38:23       traditional       21:4 70:25	117:17,22	78:24 79:18	121:3,11	transcript
128:1 132:8,12       took       51:15 52:9       124:22,23,25       147:2,2         134:21 136:22       tools       37:9,14,16       125:2       transferred         136:24 137:12       37:20 38:23       traditional       21:4 70:25	119:10 120:12	80:20 116:7,8,9	122:19,21,22	146:6,8,10,13
134:21 136:22       tools 37:9,14,16       125:2       transferred         136:24 137:12       37:20 38:23       traditional       21:4 70:25	125:24 127:25	<b>told</b> 131:17	123:13,13	146:13,21
136:24 137:12 37:20 38:23 <b>traditional</b> 21:4 70:25	128:1 132:8,12	took 51:15 52:9	124:22,23,25	147:2,2
	134:21 136:22	tools 37:9,14,16	125:2	transferred
138:10 142:6 39:1 41:22,24 41:18 42:3 141:16	136:24 137:12	37:20 38:23	traditional	21:4 70:25
	138:10 142:6	39:1 41:22,24	41:18 42:3	141:16
143:16 146:10   top   32:12 73:24   training   41:7   transferring	143:16 146:10	<b>top</b> 32:12 73:24	training 41:7	transferring
146:18,24 127:25 132:16 41:12 71:4	146:18,24	127:25 132:16	41:12	71:4
147:7 <b>topic</b> 43:17 <b>trans</b> 122:11 <b>translate</b> 57:4	147:7	<b>topic</b> 43:17	trans 122:11	translate 57:4
times 16:20,21   topics 22:6,6   transaction   63:19,22 64:2	times 16:20,21	topics 22:6,6	transaction	63:19,22 64:2
17:14 52:7 27:11,12 51:20,24 52:8 64:14,23,25	17:14 52:7	27:11,12	51:20,24 52:8	64:14,23,25
107:21 109:9 52:15 71:1 65:5 67:9 69:9	107:21 109:9		52:15 71:1	65:5 67:9 69:9

### [translate - use]

		1.10.00	101 00 100 0
92:19 108:21	turning 29:10	140:22	131:22 133:2
140:21	53:14 100:5	ultimately	141:14
translated 68:9	turns 71:17	53:12 86:23	understood
77:22 78:7	79:6	135:22	80:25
translating	tweak 68:10	unchanged	undertake
66:20 76:12	<b>two</b> 10:23	93:17	20:11 38:25
93:22 139:13	14:17 15:20,21	uncomfortable	43:2
translation	15:24 18:25	93:7	unfavorably
64:8,9 68:13	51:13 66:14,16	<b>under</b> 5:17	107:2 110:2
70:22 89:2,4,15	66:18 69:19	34:15 63:22	<b>unique</b> 36:15
92:22	70:4,23 79:4	75:19 87:8,24	unit 94:21,22
translations	95:25 116:6	127:19 130:4	<b>united</b> 1:3 96:1
88:3	120:21,22	130:12 144:1	96:1,2,16,17,17
<b>treat</b> 105:24	124:11,16	145:10	<b>units</b> 96:7
treated 105:20	<b>type</b> 54:9,10	understand	100:6
<b>trial</b> 5:18	91:4 125:25	5:16,20 11:14	unpublished
127:15	127:11	11:16 19:22	43:18
<b>trio</b> 48:10	<b>types</b> 71:22	21:1 22:14	unrealistic
<b>trod</b> 74:11	78:25 121:19	26:16 40:13	85:20
<b>true</b> 30:23	134:7 141:15	43:9 47:24	unregistered
54:10 68:5	typewriting	48:14,16,20	75:25
144:2 145:10	145:10	65:20 76:15	<b>unsure</b> 126:3,4
<b>truth</b> 145:7,8	typically 53:12	81:14 95:9	unusual 116:21
truthful 5:25	73:20 120:7	101:23 107:18	117:1 120:25
<b>try</b> 78:20 79:2	u	121:22 122:4	122:2
120:14 130:9	<b>u.s.</b> 57:3 63:20	134:25	updated 131:8
<b>trying</b> 12:25	63:24 64:19	understanding	use 25:7 51:1
36:16 40:13	66:21 67:3,10	24:13 39:4	63:15 67:18,24
43:9 95:9,11	68:2 69:10,21	46:4 48:3,6,7,9	68:24 70:13
101:22 107:18	<b>'</b>	49:2,10,14 51:1	71:5 72:5 79:5
115:13 118:16	70:25 71:4 76:13 92:19	51:16,21 52:24	80:2 82:14
134:25		58:22 59:20	87:9 90:20
turn 24:5	95:8,10 100:24	75:2 82:21	91:9 101:24
123:22	101:7,8,15	85:8 96:3	102:24 106:15
	102:2 111:14 125:7 140:11	105:16 112:10	106:21 107:5

#### [use - wallet]

108:15 109:18	121:7	variation 62:24	view 30:5 75:12
110:18,25	utility 50:12	63:4	76:9 91:22
121:18 122:6	v	variations	98:11,12 104:9
122:10 137:7		135:15	104:13,22,25
137:11,17	validated 84:12	varies 33:24	121:17,23
140:21 141:8	<b>valuation</b> 36:2	62:13 91:4	122:1 132:19
used 26:3 37:17	42:23 83:9	104:12,24	133:17 134:12
41:22 50:7,7	valuations 61:12	105:17 129:15	views 104:11
51:6 55:1 57:8		various 63:11	violation 76:1
59:24 65:14,16	<b>value</b> 41:13,23	vary 62:5,18	virtual 7:11
65:20 66:6,11	50:8 57:5,9,12	vast 119:15	23:8 93:25
67:9 69:9,22	57:13,18,21	vendor 21:4	100:2
70:2 71:1,21	61:5,10 62:5 63:10,23 64:3	<b>venture</b> 128:13	<b>visit</b> 16:1,6,17
72:22 82:4,13	64:14,24 65:1,6	verdict 70:12	16:23 17:9,14
83:18 102:1	67:6 72:5,13	89:5	19:5
105:25 107:14	73:13,15 76:11	verified 65:7	visited 15:17
108:17,21,25	76:19,20 77:8	68:16	17:10,13 18:1
109:23 137:15	78:8 82:3 83:8	veritext 4:4	19:2
140:10,20	86:1,3 87:16,17	146:7,9,11	visiting 16:12
141:2,5,25	87:18 88:4,17	version 131:9	volatility 35:17
142:12	88:19 90:7,20	versus 11:25	36:6,7
user 105:18	92:12,16 93:3	29:3 49:19	volume 1:1
users 105:14	94:21,23 99:16	50:22 53:4	105:18 121:12
uses 85:15	99:17,25	63:13 68:6	121:14,15
91:20 123:4	100:23 101:4	93:9 123:15	122:21 124:12
138:15	108:22 110:17	video 4:8	124:14
<b>using</b> 53:18	111:1,14 112:9	videographer	$\mathbf{w}$
54:1,5 83:9	112:16,24	2:12 4:2,3,23	<b>wait</b> 45:11,11
86:9,16 95:13	114:14,20	43:25 44:3	55:16 130:21
96:23 114:13	136:21,24	81:5,8 103:15	<b>waived</b> 146:23
132:20 137:2	138:25 139:8	104:2 132:8,11	146:23
140:11 141:9	139:13,19	143:16	waiving 146:20
usually 51:19	140:8 141:10	videotaped	wall 10:15,20
61:14 90:13,15	valuing 41:8	1:14	wallet 40:4,5
90:16 107:11	42:2		

### [wallets - xrp]

wallets 40:1	126:19	words 9:7 22:1	<b>wrote</b> 47:16
want 18:17	website 13:21	22:5 76:7	50:3,21 104:14
25:2 27:2 38:2	14:2,11,13,18	84:16 95:25	120:12 125:24
42:15 43:21	15:4,17 16:2,18	126:4	X
59:11 63:25	16:24 17:10	work 34:3,4,7	<b>x</b> 3:1,5 147:9
64:6 66:6	18:1	34:10 39:12,13	<b>xrp</b> 10:7,13,20
67:15 68:24	websites 16:5,7	39:14,16 59:18	11:1,13 13:12
71:13,16 75:13	16:11 124:19	104:10,11,23	13:15 19:2,6
83:16 84:9	week 7:12 8:10	110:11,17	21:18 22:1,13
86:15 88:21,24	<b>weeks</b> 14:17	111:13 127:6	22:18,24 25:4,9
90:23 91:3	15:20,21,24	127:12,19,22	25:14,22 47:18
116:8 123:11	<b>went</b> 14:2	129:2,6,17,20	48:2,3,18 49:2
123:12 126:3	141:7	134:1 137:24	49:15,22,24
127:16 128:20	<b>whereof</b> 145:16	worked 128:4	50:6,12,22 51:1
132:14	whichever	working 31:19	51:9,17,23
wanted 12:21	76:25 107:8	102:17	53:21 55:5
14:22 15:4	140:1	<b>works</b> 9:17	56:11,13,18
17:6 38:3 44:6	wish 27:14	<b>world</b> 72:25	57:2,9,11,23
way 26:8 36:14	wishes 85:9	82:11,14 83:14	58:6,7,10,12,13
38:2 46:10,13	witness 1:15	<b>worse</b> 92:3	58:19 59:1,2,18
51:15 54:19	4:25 5:2 15:13	worth 57:23	59:22 60:1,7,10
66:9 68:12	39:17 72:1	91:16 92:5,14	60:14,20 61:2,5
77:3 84:19	129:3 130:3	99:20,21	61:18,24 62:5
93:1 96:22	144:10 145:11	<b>write</b> 27:9	62:13 63:21
100:3 113:18	145:16 146:13	29:11 129:25	68:6,8 69:20,20
119:20 120:5	146:16 147:2,5	writing 9:8	69:22,23 70:2
121:13 135:25	148:24	27:21 38:5	71:2,22 73:18
136:13 139:5,6	wondering	102:14 124:4	78:3,4,14,18,21
140:1,5,19	35:6 94:16	125:1,21,22	78:23,24 79:2,4
ways 54:20	101:25 117:19	134:18,24	79:18,25 80:8
68:11 106:18	<b>word</b> 5:21 6:6	writings 21:17	80:11,12,20
136:9	19:24 27:16	22:4	81:16,21 82:17
<b>we've</b> 21:3	57:16 76:17	<b>wrong</b> 47:14	85:4,10,16 86:2
43:20 66:9,14	133:16 139:5	85:11	86:3,4 87:10,10
66:18 95:12	139:17 140:2		87:11,17,21,22
			· · · · · · · · · · · · · · · · · · ·

### [xrp - zoom]

# Federal Rules of Civil Procedure Rule 30

- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
- (2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

DISCLAIMER: THE FOREGOING FEDERAL PROCEDURE RULES

ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE ABOVE RULES ARE CURRENT AS OF APRIL 1,

2019. PLEASE REFER TO THE APPLICABLE FEDERAL RULES

OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

# VERITEXT LEGAL SOLUTIONS COMPANY CERTIFICATE AND DISCLOSURE STATEMENT

Veritext Legal Solutions represents that the foregoing transcript is a true, correct and complete transcript of the colloquies, questions and answers as submitted by the court reporter. Veritext Legal Solutions further represents that the attached exhibits, if any, are true, correct and complete documents as submitted by the court reporter and/or attorneys in relation to this deposition and that the documents were processed in accordance with our litigation support and production standards.

Veritext Legal Solutions is committed to maintaining the confidentiality of client and witness information, in accordance with the regulations promulgated under the Health Insurance Portability and Accountability Act (HIPAA), as amended with respect to protected health information and the Gramm-Leach-Bliley Act, as amended, with respect to Personally Identifiable Information (PII). Physical transcripts and exhibits are managed under strict facility and personnel access controls. Electronic files of documents are stored in encrypted form and are transmitted in an encrypted fashion to authenticated parties who are permitted to access the material. Our data is hosted in a Tier 4 SSAE 16 certified facility.

Veritext Legal Solutions complies with all federal and State regulations with respect to the provision of court reporting services, and maintains its neutrality and independence regardless of relationship or the financial outcome of any litigation. Veritext requires adherence to the foregoing professional and ethical standards from all of its subcontractors in their independent contractor agreements.

Inquiries about Veritext Legal Solutions' confidentiality and security policies and practices should be directed to Veritext's Client Services Associates indicated on the cover of this document or at www.veritext.com.